

**2025 MATERIAL SOURCING LIST ; Updated February 2025**

Sr	COMMODITY	9COM	SHORT DESCRIPTION	LONG DESCRIPTION
1	Air Conditioning	6000012733	CHILLER: ABSORPTION; WATER COOLED	CHILLER; ANY TYPE, ANY SUPPLY, AHRI 560, UL-1995 ASHRAE 90.1, ABSORPTION, SUSTAINABLE, HIGH EFFICIENCY, COMPRESSOR-LESS, WATER COOLED DIRECT FIRED OR EXCESS/WASTE STEAM/HEAT FOR HVAC APPLICATION.
2	Compressors	6000002338	COMPRESSOR; DRY-SCREW, FOR AIR SERVICE	COMPRESSOR; DRY-SCREW TYPE, 31-SAMSS-002, FOR AIR SERVICE
3	Drilling & Chemicals	1000021558	CALCIUM HYDROXIDE (HYDRATED LIME)	CALCIUM HYDROXIDE (HYDRATED LIME) ADDITIVE DRILLING FLUID; DRY, FREE FLOWING FINE POWDER FORM, CALCIUM HYDROXIDE, Ca(OH) <sub>2</sub> , FOR TO CONTROL PH, BICARBONATE, AND H2S CONTAMINATION. LIME IS ALSO A PRIMARY COMPONENT OF INVERT EMULSION MUDS, CALCIUM HYDROXIDE (HYDRATED LIME) 25 KG (55.1 LBS.) MULTI WALLED PAPER BAG WITH INNER POLYETHYLENE SEALED LINER. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. ADDITIVE DRILLING FLUID DRY, FREE FLOWING FINE POWDER FORM, CALCIUM HYDROXIDE, Ca(OH) <sub>2</sub> , FOR TO CONTROL PH, BICARBONATE, AND H2S CONTAMINATION. LIME IS ALSO A PRIMARY COMPONENT OF INVERT EMULSION MUDS, CALCIUM HYDROXIDE (HYDRATED LIME) 25 KG (55.1 LBS.) MULTI WALLED PAPER BAG WITH INNER POLYETHYLENE SEALED LINER. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. CALCIUM HYDROXIDE Ca(OH) <sub>2</sub> HYDRATED LIME - TECHNICAL GRADE USED TO INCREASE T PH AND TO PROVIDE CALCIUM IONS IN DRILLING AND COMPLETION FLUIDS TO MAINTAIN A BASIC PH. IT IS AN ESSENTIAL ADDITIVE AS A MEANS OF ADJUSTING THE ALKALINITY WHEN BICARBONATE/CARBONATE AN H2S CONTAMINATIONS EXIST IN ADDITION, LIME IS USE FOR MAINTAINING THE ALKALINITY OF OIL-BASED DRILLING FLUIDS TO ACTIVATE THE FATTY ACID BASED EMULSIFIERS AND OFFERS A DEGREE OF CORROSION PROTECTION. CHEMICAL AND PHYSICAL SPECIFICATIONS WHITE POWDER CALCIUM HYDROXIDE Ca(OH) <sub>2</sub> : 90% WT. MINIMUM MOISTURE: 1%WT. MAXIMUM PH: 12 MINIMUM - SATURATED SOLUTION IN DI WATER AT 68°F (20°C) SPECIFIC GRAVITY AT 68°F (20°C): 2.2 - 2.4 (INSOLUBLE IMPURITIES IN 15% HYDROCHLORIC ACID): 0.2% WT. MAXIMUM MAGNESIUM AN ALKALI SALTS: 2.5% WT. MAXIMUM IRON CONTENT: 0.1 WT. MAXIMUM PASS THROUGH 75 MM SIEVE (WET SCREEN): >97%. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4-WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
4	Drilling & Chemicals	1000021602	HIGH TEMPERATURE FLUID LOSS CONTROL	HIGH TEMPERATURE FLUID LOSS CONTROL POLYMER ADDITIVE DRILLING FLUID; POWDER FORM, COPOLYMER, FOR FILTRATION CONTROL AGENT FOR ALL TYPES OF WATER-BASED MUDS FOR TEMPERATURES UP TO 500 °F (260 °C), ANIONIC ACRYLAMIDE METHYLPROPANESULFONIC ACIDS COPOLYMER, 50 LBS. (22.7 KG). MULTI-WALLED PAPER BAG. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 50 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 50 LB. MIN. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER LINER, HIGH DENSITY ORIENTED, CROSS-LAMINATED, POLYETHYLENE RESIN INNER LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 50 LB. MIN. NATURAL KRAFT PAPER. 5TH PLY 60 LB. MIN. NATURAL KRAFT PAPER WET STRENGTH (EXTERIOR PLY) THE BAG MUST BE VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATER PROOF SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. HIGH TEMPERATURE FLUID LOSS CONTROL POLYMER: A WHITE POWDER OF ANIONIC ACRYLAMIDE METHYLPROPANESULFONIC ACIDS (AMPS) COPOLYMER USED AS A FILTRATION CONTROL AGENT FOR ALL TYPES OF WATER BASED FLUIDS WHILE BEING INSENSITIVE TO HIGH CONCENTRATIONS OF SALTS INCLUDING CALCIUM CHLORIDE AND WILL TOLERATE BOTTOM-HOLE TEMPERATURES UP TO 500 °F (260°C). IT DOES NOT HYDROLYZE AND WILL PERFORM OVER A BROAD PH RANGE (7 - 12) WITHOUT LIBERATION OF AMMONIA GAS AND VERY TOLERANT OF CEMENT CONTAMINATION. OTHER ASSOCIATED ELEMENT MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSE AFFECT FLUID PROPERTIES. CHEMICAL AND PHYSICAL SPECIFICATIONS: COLORLES TO YELLOWISH POWDER COMPLETELY SOLUBLE IN DI WATER. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4-WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
5	Drilling & Chemicals	1000021678	FINE MUSCOVITE MICA	FINE MUSCOVITE MICA ADDITIVE DRILLING FLUID; AN EXPORT PACKING MANUAL NOTE. FORM, MICA, FOR LOST CIRCULATION, MUSCOVITE MICA, 50 LBS. (22.7 KG) MULTI-WALL BAG, VALVE/SPOUT TYPE COMPLETELY SEALED. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER. 3RD PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY) SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO, FINE MUSCOVITE MICA: USE FOR COMBATING LOSS OF CIRCULATION DURING THE DRILLING OPERATIONS. FIN MICA CAN BE USED IN BOTH OIL AND WATER-BASED DRILLING MUDS. CHEMICAL AND PHYSICAL SPECIFICATIONS: SILVERY, FLAT, FLAKEY STRUCTURE MUSCOVITE MICA CONTENT: 95%WT. MINIMUM SPECIFIC GRAVITY: 2.2 - 2.8 CHEMICALLY INERT NON-ABRASIVE MUSCOVITE MINERAL (POTASSIUM-ALUMINA-SILIC) SIEVE ANALYSIS REQUIRED: PASS THROUGH 1 MESH SCREEN 100%WT. RETAINED ON 40 MESH SCREEN 10%-25% WT RETAINED ON 8 MESH SCREEN 40%-50%WT RETAINED ON 100 MESH SCREEN 25%-40%WT PASS THROUGH 100 MESH SCREEN 0.0%-10%WT SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4-WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
6	Drilling & Chemicals	1000022178	STUCK PIPE SPOTTING FLUID	ADMIXTURE, DRILLING MUD: INVERTED EMULSION MUD COMPONENTS, TO FREE STUCK PIPES (EMULSIFIER), SPECIAL BLEND OF LIQUID, ADDITIVE DRILLING FLUID; LIQUID FORM, SURFACTANT, FOR IT IS USED IN A PILL TO DEHYDRATE AND PENETRATES THE WALLACE, OIL WETS AND LUBRICATES THE STRING TO REDUCE THE FORCE REQUIRED TO FREE STUCK PIPE. SURFACTANTS AND CONCENTRATED EMULSIFIERS AND LUBRICANTS, 55 GAL (208 LITER) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. STUCK PIPE SPOTTING FLUID A LIQUID BLEND OF LUBRICANTS, VISCOSIFIERS OIL WETTING SURFACTANTS CONCENTRATED EMULSIFIERS AND LUBRICANTS. SPOTTING AND SOAKING A PILL OF THE MIXTURE AROUND THE STUCK PIPE, DEHYDRATES AND PENETRATES THE WALLACE, OIL WETS AND LUBRICATES THE DRILLSTRING TO REDUCE THE FORCE REQUIRED TO FREE STUCK PIPE. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DARK BROWN VISCOUS LIQUID. FLASH POINT (MCC): > 84°F (28.9°C) SPECIFIC GRAVITY 68°F (20°C): 0.90 - 0.98 SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4-WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
7	Drilling & Chemicals	1000182387	CHEMICAL: GR TECHNICAL 2-I2	CHEMICAL: GR TECHNICAL 2-I2 AMINOETHOXY ETHANOL, FOR ACID INHIBITOR TO REMOVE CO <sub>2</sub> & H <sub>2</sub> S FROM NATURAL GAS (SWEETENING PROCESS), LIQUID FORM, BULK DELIVERY, IMPORT 18927 L (5000 US GAL), 2-(2-AMINOETHOXY) ETHANOL, DILYCOLAMINE "DGA", MISCIBLE WITH WATER & ALCOHOLS, 1.0572 RELATIVE DENSITY AT 20/20 DEG C
8	Drilling & Chemicals	1000182780	ANTIFREEZE: MONO ETHYLENE GLYCOL (MEG)	ANTIFREEZE: MONO ETHYLENE GLYCOL (MEG) TYPE, SPECIFIC GRAVITY 20/20 C 1.115-1.116, DISTILLATIO RANGE 196.0-199.0 DEG C 760 MM HG, WATER (W/W) 0.05% MAX, IRON (PPM W/W) 0.1 MAX, ACIDITY WT AS ACETIC ACID 0.001% MAX TECHNICAL, LIQUID, BULK DELIVERY AT SITE, ARAMCO LABORATORY ANALYSIS IS REQUIRED REQUIRES SAUDI ARAMCO HAZCOM LABEL IN M 1000644200 (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
9	Drilling & Chemicals	1000185026	OXYGEN SCAVENGER - SODIUM SULFITE	OXYGEN SCAVENGER - SODIUM SULFITE ADDITIVE DRILLING FLUID; WHITE POWDER, FORM, FOR REMOVING SOLUBLE OXYGEN FROM WATER-BASED DRILLING FLUIDS AND MONOVALENT BRINES, SODIUM SULFITE, 50 KG (132 LB) PLASTIC RIMMED FIBER OR METAL DRUM WITH POLYETHYLENE LINER. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. OXYGEN SCAVENGER - SODIUM SULFITE: ANHYDROUS SODIUM SULFITE (NA <sub>2</sub> SO <sub>3</sub> ) COMMERCIAL GRADE. USED FOR REMOVING SOLUBLE OXYGEN FROM WATER-BASED DRILLING FLUIDS AND MONOVALENT BRINES. IT REACTS WITH DISSOLVED OXYGEN TO REDUCE OXYGEN CORROSION TO FORM SULFATE (SO <sub>4</sub> -2). THIS REACTION REQUIRES A COBA CATALYST IN THIS CHEMICAL SOLUBLE OXYGEN REMOVAL USING SMALL AMOUNTS OF THIS PRODUCT REDUCES THE THERMAL DEGRADATION RATE OF THE DRILLING FLUIDS ORGANIC POLYMERS IN HIGH TEMPERATURE WELLS. CHEMICAL AND PHYSICAL SPECIFICATIONS: PURITY: ANHYDROUS SODIUM SULFITE (NA <sub>2</sub> SO <sub>3</sub> ): 95%WT. MINIMUM WHITE TO OFF-WHITE POWDE CATALYZED WITH COBALT: 0.03%WT. MINIMUM PH (1% SOLUTION IN DI WATER): HIGHER THAN 8. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4-WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
10	Drilling & Chemicals	1000187178	ANTIFREEZE: TRIETHYLENE GLYCOL, LIQUID	ANTIFREEZE: TRIETHYLENE GLYCOL TYPE, CAS NO: 112-27-6. MOLECULAR WEIGHT 150 G/MOL, BOILING POINT 285 DEGREE C. PURITY : MORE THAN OR EQUAL 99 (TYPICA IS 99.8 ) BASED ON ASTM E2409. DEG CONTENT IS LE THAN OR EQUAL 0.5 PERCENT WEIGHT BASED ON ASTM E2409, WATER/MOISTURE: LESS THAN OR EQUAL 0.2 WEIGHT PERCENT BASED ON ASTM E1064. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
11	Drilling & Chemicals	1000720918	POLYSTYRENE COPOLYMER BEADS - COARSE	POLYSTYRENE COPOLYMER BEADS - COARSE ADDITIVE DRILLING FLUID, COARSE GRADE SPHERICAL DRY BEADS FORM, DIVINYL BENZENE STYRENE COPOLYMER BEADS, FOR PROVIDE MECHANICAL LUBRICATION, REDUCE TORQUE AND DRAG WHILE DRILLING AND PREVENT CASING WEAR IN WBM OR OBM, DIVINYL BENZENE STYRENE COPOLYMER, 50 LBS. (22.7 KG) BAG SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. POLYSTYRENE COPOLYMER BEADS - COARSE: COARSE GRADE, SPHERICAL DRY BEA OF DIVINYL BENZENE STYRE COPOLYMER, CHEMICALLY INERT, THAT WILL NOT BRE UNDER EXTREME STRESS AND IMPACT TO PROVIDE MECHANICAL LUBRICATION, REDUCE TORQUE AND DRAG A PREVENT CASING WEAR WHILE DRILLING WITH WBM OR OBM CHEMICAL AND PHYSICAL SPECIFICATIONS: SPHERICA DRY BEADS SPECIFIC GRAVITY: 1.06 TO 1.3 SOFTENING EMPTURE: > 500°F (260°C) AXIAL DEFORMATION @ 16,000 PSI 5.5 MM MAXIMUM PARTICLE SIZE RANGE: 100 TO 1000 MICRONS SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4-WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.

Sr	COMMODITY	9COM	SHORT DESCRIPTION	LONG DESCRIPTION
12	Drilling & Chemicals	100075781	H2S SCAVENGER-ZINC-FREE IRON GLUCONATE	H2S SCAVENGER-ZINC-FREE IRON GLUCONATE ADMIXTURE DRILLING MUD; POWDER FORM,IRON GLUCONATE, FOR SCAVENGES HYDROGEN SULFIDE FROM DRILLING FLUIDS,IRON GLUCONATE, 25 KG (55.1 LBS.) PAIL OR SEALED BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATERPROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG (CONTAINER) SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINDER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLYETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY). SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL.H2S SCAVENGER-ZINC-FREE IRON GLUCONATE A HIGHLY WATER-SOLUBLE GRANULAR POWDER OF IRON GLUCONATE WITH NO HAZARDOUS SUBSTANCES AND USED TO SCAVENGE HYDROGEN SULFIDE FROM WATER-BASED AND OIL-BASED DRILLING FLUIDS CHEMICAL AND PHYSICAL SPECIFICATIONS: PURITY (IRON GLUCONATE): >90%WT APPEARANCE: LIGHT YELLOW-GREEN GRANULAR POWDER PH (1% DI WATER SOLUTION):4-5 SOLUBILITY: 100% SOLUBLE IN WATER ONE LB./GAL. OF PRODUCT REMOVES APPROXIMATELY 150-220 MG/LITER SULFIDES BULK DENSITY: 650-850 KG/M3 @ 68°F (20°C). SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
13	Drilling & Chemicals	100075782	ACID SOLUBLE SPUN MINERAL FIBER LCM	ACID SOLUBLE SPUN MINERAL FIBER LOSS CIRCULATION MATERIAL ADDITIVE DRILLING FLUID; FIBER AND POWDER FORM,SPUN MINERAL FIBER, FOR COMBATING LOST CIRCULATION BY PLUGGING VUGULAR AND FRACTURED FORMATIONS DURING DRILLING AND WORKOVER OPERATIONS.SPUN CRYSTALLINE SILICA MINERAL FIBER OR POWDER, 30 LB. (13.61KG) SEALED BAG, THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 30 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 30 LB. MIN. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINDER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLYETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 30 LB. MIN. NATURAL KRAFT PAPER. 5TH PLY 30 LB. MIN. NATURAL KRAFT PAPER WET STRENGTH (EXTERIOR PLY) THE BAG MUST BE VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATERPROOF. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL.ACID SOLUBLE SPUN MINERAL FIBER LOST CIRCULATION MATERIAL: A SPECIALLY PROCESSED EXTRUSION OF SPUN CRYSTALLINE SILICA MINERAL FIBER AND POWDER USED FOR COMBATING LOST CIRCULATION BY PLUGGING VUGULAR AND FRACTURED SUBSURFACE FORMATIONS DURING DRILLING OR WORKOVER OPERATIONS. THE PRODUCT IS 100% INORGANIC NON-FERMENTING, NON-CORROSIVE, NON-TOXIC CONTAINS NO ASBESTOS, AN TEMPERATURE STABLE. IT IS COMPATIBLE WITH OIL-BASED AND WATER-BASED FLUID SYSTEMS. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: WHITE TO GREY COLOR, ODORLESS INORGANIC AND NON-FERMENTING INSOLUBLE IN WATER, SOLUBILITY IN 15% HCL: 9 MINIMUM PH (1% AQUEOUS SOLUTION); 7-8 BULK DENSITY @ 68°F (20°C): 12-26 LB./GALLON. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
14	Drilling & Chemicals	1000774250	POTASSIUM FORMATE (75% SOL, WATER 25%)	ADMIXTURE DRILLING MUD; LIQUID FORM,POTASSIUM FORMATE SOLUTION (KOOH & H2O),FOR FORMULATING SOLIDS FREE WORKOVER FLUIDS FOR USE IN THE KHUFF AND PRE-KHUFF FORMATION,POTASSIUM FORMATE 75% AND WATER 25% SOLUTION, CLEAR LIQUID, DENSITY 1570 KG/M3 @ 20 DEG C, PH 10.0 @ 25 DEG C,1000 LITER (1570 KG) IBC OR TOTE CONTAINER (CO) IRON LESS THAN 10 PPM, CHLORIDE CONTENT LESS TH 40 PPM, TURBIDITY MAX 10 NTU, SOLUBLE IN ALL PROPORTIONS IN WATER EXPORT PACKING MANUAL. T ORIGINAL MANUFACTURER, PRODUCT NAME, BATCH NUMBER, DATE OF PRODUCTI OF MATERIAL, EXPIRATION DATE IF REQUIRED STOCK NUMBER NO COUNTRY OF ORIGIN BE PRINTED ON THE CONTAINER ITSELF. AUTHORIZED SAUDI ARAMCO PERSONNEL WILL CARRY OUT PROPER SAMPLING AND TESTING, AS NEEDED. PRODUCT MANUFACTURER AND OR SUPPLIER REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)1000774250
15	Drilling & Chemicals	1000775823	CLAUS CATALYST, TITANIUM DIOXIDE	CATALYST; TITANIUM DIOXIDE TYPE, FOR CLAUS SULFUR PLANTS,CYLINDRICAL EXTRUDATE 3-6 MM NOMINAL SIZE FORM,800-1100 KG (1763-2425 LB) SLING BAG, 140-200 KG (308-441 LB) DRUMS,TITANIUM DIOXIDE CLAUS CATALYST MAXIMISES HYDROLYSIS ACTIVITY FOR COS AND CS2, BULK DENSIT LESS THAN OR EQUAL TO 70 -1100 KG/M3 (43 - 69 LBS/ CU FT), TOTAL PORE VOLUME 0.40 - 0.60 CM3/GRAM, CRUSH STRENGTH MEASURED ON NOT LESS THA 50 BALLS SHOULD BE GREAT THAN OR EQUAL TO 14 TO SURFACE AREA 100-260 M2/GRAM, USED IN CLAUS SULFUR REACTORS (CONVERTERS) IN GAS PLAN & REFINERIES (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
16	Drilling & Chemicals	1000813534	CALCIUM CARBONATE FLAKES-FINE	CALCIUM CARBONATE FLAKES-FINE ADDITIVE DRILLING FLUID; FLAKES FORM,SIZED FLAKES OF CALCIUM CARBONATE FOR USED AS BRIDGING AGENT TO CONTROL LOSS CIRCULATION AND SEEPAGE LOSSES. FINE WHITE FLAKES OF SIZED CALCIUM CARBONATE, 50 LB. (22.7 KG) MULTI-WALLED BAG, VALVE/SPOUT TYPE COMPLETELY SEALED. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER. 3RD PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY). SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL.CALCIUM CARBONATE FLAKES-FINE ADDITIVE DRILLING FLUID FORM SIZED FLAKES OF CALCIUM CARBONATE, FOR USED AS BRIDGING AGENT TO CONTROL LOSS CIRCULATION AND SEEPAGE LOSSES, FINE WHITE FLAKES OF SIZED CALCIUM CARBONATE, 50 LB. (22.7 KG) MULTI-WALLED BAG, VALVE/SPOUT TYPE COMPLETELY SEALED. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY). SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL.CALCIUM CARBONATE FLAKES-FINE: FINEWHITE FLAKES OF SIZED CALCIUM CARBONATE, USED AS BRIDGING AGENT TO CONTROL LOSS CIRCULATION AND SEEPAGE LOSSES IN A VARIETY OF DRILLING FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: FINE WHITE FLAKES SOLUBILITY IN 15% HCL: 98%WT. MINIMUM CRYSTALLINE SILICA: 0.1 WT.% MAXIMUM SPECIFIC GRAVITY @ 68°F (20°C): 2.72 - 2.78 PARTICLE SIZE DISTRIBUTION: CUMULATIVE RETAINED 30 US MESH: 5% WT. MAXIMUM 60 US MESH: 45 - 55% WT. 100 US MESH: 70 - 80% WT. 200 US MESH: 85 - 95% WT. D50 = 200 - 250 MICRONS MOISTURE: 1%WT. MAXIMUM IRON CONTENT: 0.1%WT. MAXIMUM. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE SUPPLIER ARE REQUIRE TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BAT NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY) FLAKES. PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
17	Drilling & Chemicals	1000840182	AGENT, FLOW IMPROVER	AGENT; FLOW IMPROVER TYPE, FOR DRAG REDUCING AGENT, ISO TANK/ 6000 US GALLON, DENSITY: 8.0 LBS/GAL (0.96 G/CM3), FLASH POINT: NOT APPLICABLE, VISCOSITY: 350 CP @ 5115-1 (NON-NEWTONIAN),(AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
18	Drilling & Chemicals	1000845427	THINNER MODIFIED TANNIN - DRILL THIN	HIGH TEMPERATURE THINNER ADDITIVE DRILLING FLUID; BROWN COLORED POWDER FORM,MODIFIED TANNIN COMPOUND, FOR USED AS MUD CONDITIONER PROVIDING RHEOLOGY CONTROL IN WATER BASE FLUIDS WITH MAXIMUM DEFLOCCULATING AND SHEAR STRENGTH REDUCTION AT LOW CONCENTRATIONS, 25 LB MULTIWALL PAPER BAGS, APPEARANCE: BROWN COLORED POWDER, PH (2% DI WATER: 7-9) SPECIFIC GRAVITY @ 20 DEG C: 1.5 MINIMUM, CRYSTALLINE SILICA (QUARTZ): 1% MAXIMUM CONTAINER MUST BE PROPER LABELED WITH, VENDOR'S NAME, MANUFACTURER'S NAME LOCATION, PRODUCTION DATE AND BATCH NUMBER. SAUDI ARAMCO WILL CARRY OUT PROPER SAMPLING AND TESTING AS NEEDED. PRODUCT MANUFACTURER AND OR SUPPLIER REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO). THE ORIGINAL MANUFACTURER, PRODUCT NAME, BATCH NUMBER, DATE OF PRODUCTION OF MATERIA EXPIRATION DATE AND COUNTRY OF ORIGIN BE PRINTED ON THE CONTAINER OR DRUM, WHETHER IT IS I TOTE, BIG BAGS AND/OR PAPER BAGS. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION. MAN REFS;
19	Drilling & Chemicals	1000845612	MICROMAX – MANGANESE TETROXIDE	MICROMAX – MANGANESE TETROXIDE ADDITIVE DRILLING FLUID; FINE REDDISH BROWN POWDER FORM, FINE REDDISH BROWN POWDER OF MANGANESE TETROXIDE (MN3O4) WITH AVERAGE PHYSICAL PARTICLE DIAMETER 0.5 – 2 MICRONS. IT IS USED AS WEIGHT MATERIAL IN DRILLING, COMPLETION AND CEMENTING FLUIDS TO REACH HIGH DENSITY DRILLING FLUIDS WITH LOW EQUIVALENT CIRCULATING DEPTH (ECD), MINIMAL SAG AND CAUSE LESS FORMATION DAMAGE. THE CEMENTAL AND ITS ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR PROPERTIES.FOR USED AS WEIGHT MATERIAL IN DRILLING, COMPLETION AND CEMENTING FLUIDS.MANGANESE TETROXIDE 1000 KG (2204 LBS.) MULTI-WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP BAG IS DISPOSABLE, TOP-CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING & OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 1000840600 FOR DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGH THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TRUCK PRINT DATA STATING: DATE AND TIME COMPANY AND ADDRESS, TRUCK IDENTITY NUMBER, MATERIAL NAME, TRUCK WEIGHT BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. APPEARANCE: REDDISH-BROWN POWD, CHEMICAL AND PHYSICAL SPECIFICATIONS APPEARANCE: FINE REDDISH BROWN POWDE ODORLESS. MN3O4: 85%WT MINIMUM FE CONTENT: 4.5% MAXIMUM PARTICLE DIAMETER D90 LESS THAN MICRONS AND D50 0.5 – 2 MICRONS, SOLUBILITY IN WATER: INSOLUBLE, PH (5G IN 50 DL WATER): 7 – 10.5, SPECIFIC GRAVITY @ 68 DE F (20 DEG C): 4.8, MINIM BULK DENSITY: 84 LB/FT3 (950-1050 G/M3). SURFACE AREA: 1 – 5 M2/GM. SIRMOLIA IS ONLY SLIGHTLY SOLUBLE IN ORGANIC ACIDS SUCH A CITRIC ACID, AND IT MUST NOT BE TREATED WITH HYDROCHLORIC ACID (HCL), BECAUSE THE REACTION PRODUCES CHLORINE GAS.SAUDI ARAMCO RESERVE THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSU COMPLIANCE WITH THE MATERIAL DESCRIPTION AND PECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL-PRODUCT NAME, BATC NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER
20	Drilling & Chemicals	1000876207	COPOLYMER POLYMER SWEEP STICK	COPOLYMER POLYMER SWEEP STICK ADDITIVE DRILLING FLUID; SOLID FORM, ACRYLIC COPOLYMER, FOR USED TO PROVIDE VISCOSITY, REDUCE FRICTION, ENCAPSULATE CUTTINGS AND PROVIDE A LIMITE AMOUNT OF FLUID-LOSS CONTROL IN WBHM, ACRYLIC COPOLYMER STICK, 20 STICKS IN 6 GAL METAL CONTAINER SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL.COPOLYMER POLYMER SWEEP STICK: SOLID ACRYLIC COPOLYMER STICK USED TO PROVIDE VISCOSITY, REDUCE FRICTION, ENCAPSULATE CUTTINGS AND PROVIDE A LIMITED AMOUNT OF FLUID-LOSS CONTROL IN WATER-BASED DRILLING FLUIDS. IT IS DROPPED IN THE DRILL STRING DURING CONNECTIONS AND PROVIDES CONSISTENT HIGH VISCOSITY SWEEPING PILL ALTERNATIVE TO HIGH-VISCOSITY MUD SWEEPS. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: A TUBE FILLED WITH OLYMER SIZE: 1-1/4 IN.SPECIFIC GRAVITY @ 68°F (20°C): 1.85 – 1.99 SOLUBLE IN WATER SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS.PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS ATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
21	Drilling & Chemicals	1000908540	ENZYME FILTER CAKE BREAKER	HOLEZYME-ST CAKE REMOVER-WILDCAT ADDITIVE DRILLING FLUID; LIQUID FORM, ENZYME, FOR IT IS USED FOR DEGRADING WATER BASED MUD FILTER CAKE, STARCH SPECIFIC ENZYME, 55 GAL (208 LITER) PLASTIC DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. LIQUID ENZYME USED FOR DEGRADING WATER BASED MUD FILTERCAKE. IT IS A STAR SPECIFIC ENZYME THAT BREAKS DOWN THE STARCH POLYMERS PRESENT IN THE MUD FILTER CAKE AND ENABLES MORE EFFECTIVE ACIDIZING TREATMENT. THE CAKE ACID-SOLUBLE DRILL SOLIDS AND BRIDGING PARTICLES CREATING THE NEAR-WELBLORE DAMAGE CAN BE REMOVED ALLOWING THE MAXIMUM POTENTIAL PRODUCTION. IT IS SUITAB FOR ENVIRONMENTS UP TO 2 F AND OVER A WIDE RANGE PH (3-10). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: CLEAR LIGHT BROWN LIQUID SPECIFIC RAVITY @ 68°F (20°C): 0.91-1.2 FLASH POINT (PMCC): >320°F (160°C) P 5.5-7.5. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
22	Drilling & Chemicals	1000959459	CHEMICAL, GT GRADE, METHYLDIETHANOLAMINE	CHEMICAL: GR GT GRADE, METHYLDIETHANOLAMINE FOR GAS TREATMENT AGENT, LIQUID FORM, ISO TANK, 2,2-(METHYLMINO) DIETHANOL N-METHYLDIETHANOLAMINE > 99 %, 2-ETHYLMINOETHANOL N-METHYL-2-ETHANOLAMINE < 0.5%, MDEA, COLORLESS, ODOR: AMINOACRAL, PH: 10.4, BOILING POINT (760 MMHG): 247.3 C, VAPOR PRESSURE < 0.01 KPA AT 20 C, VAPOR PRESSURE (AIR – 1) : 4.1, SPECIFIC GRAVITY (H2O = 1) : 1.041 AT 20 C. MDEA IS CAPABLE OF UNDERGOING REACTIONS TYPICAL OF BOTH ALCOHOLS AND AMINES, FORMING QUATERNARY AMINE SALTS, SOAPS, AND ESTERS. THIS MAKES MDEA A USEFUL INTERMEDIATE IN THE SYNTHESIS OF NUMEROUS PRODUCTS, AND HAS RESULTED IN ITS USE IN MANY DIVERSE AREAS, INCLUDING COATINGS, TEXTILE LUBRICANTS, POLISHES, DETERGENTS, PESTICIDES, PERSONAL CARE PRODUCTS, AND PHARMACEUTICALS.

Sr	COMMODITY	9COM	SHORT DESCRIPTION	LONG DESCRIPTION
23	Drilling & Chemicals	1000985655	ADDITIVE DRILLING FLUID, FIBERS, FLAKES	ADDITIVE DRILLING FLUID; FIBERS, FLAKES AND GRANULAR MATERIALS. FORM,ONE-SACK FORMULA, MADE FROM COMBINATIONS OF FIBERS, FLAKES AND GRANULAR MATERIALS USED IN A WIDE VARIETY OF LOSSES SITUATIONS. IT IS NATURAL AND BIODEGRADABLE MATERIAL AND WORKS IN DRILLING FLUIDS OF ANY PH, FOR ONE-SACK FORMULA, MADE FROM COMBINATIONS OF FIBERS,FLAKES AND GRANULAR MATERIALS, FIBERS, FLAKES AND GRANULAR MATERIALS, 35 LB NET WEIGHT PER BAG,CHEMICAL AND PHYSICAL SPECIFICATIONS INSOLUBLE IN WATER, IT HAS AN ACID SOLUBILITY IN 15% HCL AT 150 °F OF MINIMUM 22% AFTER 16 HR OF SOAKING. HAS A PH OF 6.4 - 6.6 IN DI. PARTICLE SIZE: MEDIA PARTICLE RANGE: 150 - 84 MICRONS WITH PARTICLES U TO 2360 MICRONS IT CAN B USED IN WBM AND OBM, AND IT IS BLENDED FOR THE FOLLOWING APPLICATIONS: FRACTURE WIDTH TREATMENT TO 0.05 INCHES (1.27 MM) 10-25 LB/BBL (28.56-71.3 KG/M3) TO 10 INCHES (2.54 MM) 25-40 LB/BBL (71.33-114.2KG/M3). SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVITY PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WIT THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BAT NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE MSDS. "UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT" (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
24	Drilling & Chemicals	1001062664	ADDITIVE DRILLING FLUID, FREE FLOWING PO	ULTRA LOW FLUID INVASION ADDITIVE DRILLING FLUID; FREE FLOWING POWDER TAN FORM, BLEND OF MICRO SIZED ORGANIC PRODUCTS BIOPOLYMERS AND FIBERS, FOR IS AN ENVIRONMENTALLY FRIENDLY AND BIODEGRADABLE BLEND OF MICRO SIZED ORGANIC PRODUCTS. BIOPOLYMERS IS DESIGNED TO SEAL LOW PRESSURE ZONES CREATING AN ULTRA LOW PERMEABILITY SEAL COMPATIBLE WITH WBM AND OBM ALONG WITH MOST COMPLETION FLUIDS, CELLULOSE, SILICA, CRYSTALLINE QUARTZ, BAGS PER PALLET, APPEARANCE: FREE FLOWING POWDER TAN SPECIFIC GRAVITY@68 F=1.0 - 1.65 PH (5% WT N DI WATER) ~6-7 D50= 80-200,CONTAINER MUST BE PROPER LABELED WITH PRODUCT NAM BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, S NUMBER AND COUNTRY OF ORIGIN, THE ORIGINAL MANUFACTURER NAME AND CONTACT INFORMATION. EACH SACK SHALL CONTAIN A SPECIFIED NET MASS SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVITY PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WIT THE MATERIAL DESCRIPTION AND SPECIFICATION. MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). SHIPMENTS PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. HAZCOM ACCORDING TO THE MATERIA SAFETY DATA SHEET (MSDS) SHIPMENTS OF PRODUCTS MU CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. "UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT" (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
25	Drilling & Chemicals	1001079694	CHEMICAL, CITRIC ACID, ACID, POWDER, 50	CITRIC ACID ANHYDROUS ADDITIVE DRILLING FLUID; POWDER FORM, AA 50 KG (110 LB.) NET WT., POLYETHYLENE LINED DRUM. SHIPMENT OF PRODUCT SHALL CONFIRM TO SAUDI ARAMCO EXPORT PACKING MANUAL, BASE MATERIAL: ACID, CITRIC ACID (ANHYDROUS). WHITE POWDER OR FINE GRANULES SLIGHTLY HYDROSCOPIC AND SHOULD B STORED UNDER CONDITIONS LOW TEMPERATURE AND LOW HUMIDITY IN AIRTIGHT CONTAINERS TO PREVENT CAKIN CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: WHITE ODORLESS CRYSTALS, GRANULES OR POWDER PURITY: 99.5% CITRIC ACID (C6H8O7) MINIMUM SOLUBILITY IN WATER : 1008WT. PH (10% DI WAT 1.7 MAXIMUM EN5 @ 68°F (20°C)): 1.67 G/CM³ SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSU COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: REQUIRES SAUDI ARAMCO HAZCOM LABEL IN MM# 1000644278 PRODUCT NAME BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, S NUMBER AND COUNTRY OF ORIGIN, THE ORIGINAL ANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE (MSDS) UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
26	Drilling & Chemicals	1001129231	ADDITIVE DRILLING FLUID, WHITE FREE FLOW	CALCIUM BROMIDE (CABR2) DRY 95% ADDITIVE DRILLING FLUID; WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR FORM, CALCIUM BROMIDE (CABR2) DRY 95%, FOR WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR WITH NO LUMPS, CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUT, CALCIUM BROMIDE (CABR2) DRY 95%, 25 KG (55.1 LB) BAG (NET WEIGHT), WHITE FREE FLOWING POWDER CRYSTALLINE OR GRANULAR WITH NO LUMPS, CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH MINIM DENSITY OF 1.70 GM/CC. A CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE. SOLIDS-FREE NON-DAMAGING HIGH-CENSTR BRINE BLENDS WITH DENSITIES UP TO 143 PCF (19.1 LB/GAL). APPEARANCE WHITE FREE FLOWING POWDER CRYSTALLINE OR GRANULAR, NO LUMPS SATURATED BRINE SOLUTION. CLEAR COLORLESS PURITY AS CABR2, PERCENT 95 MINIMUM SG AT 77 DEG (25 DEG C); 3:2 - 3:4 SOLUBILITY IN WATER AT 6 DEG F (20 DEG C), WT PERCENT 58 MINIMUM IRON, PPM; 10 MAXIMUM CHLORIDE AS CaCl2, WT PERCENT 1.5 MAXIMUM SULFATE, PPM; 20 MAXIMUM HEAVY METALS, PP PB; 5 MAXIMUM HG; 1 MAXIMUM AS; 5 MAXIMUM CD 5 MAXIMUM SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WIT THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. U REFERRED IN THIS MATERIA IS NET VOLUME/WEIGHT. LABEL: PRODUCT NAME, BAT NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE MSDS. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
27	Drilling & Chemicals	1001130337	ADDITIVE DRILLING FLUID, YELLOW TO DARK	EXTREME LUBRICANT FOR UNDERBALANCE COILED TUBING DRILLING ADDITIVE DRILLING FLUID; YELLOW TO DARK AMBER LIQUID FORM, BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS, FOR COMBUSTIBLE AMBER LIQUID BLEND OF POLYMERIZED FATTY AMIDE, ACID AND ESTER, OR POLYOL ESTER OF FATTY ACID USED IN SOLIDS-FREE DRILL-IN FLUIDS OR MONOVALENT BRINES TO REDUCE TORQUE AND DRAG IN HIGHLY TORTUOUS OR EXTENDED REACH WELLS, INCLUDING COILED TUBING, BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS, 55 GAL (208 LITER) DRUM (NET VOLUME), APPEARANCE: YELLOW TO DA AMBER. SWEET AND MILD OD SOLUBILITY IN WATER: INSOLUBLE IN WATER SPECIFIC GRAVITY AT THE RANGE BETWEEN 68F (20C): 0.95 - 1.05 FLASH POINT (PMCC): GREATER THAN 212 (100C) IT WILL NOT GREAS OR PHASE OUT. SAUDI ARAM RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WIT THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHE MSDS. IT IS NON-DAMAGING TO PRODUCING ZONES, NON-TOXIC, ENVIRONMENTALLY FRIENDLY AND HELPS PREVE BIT BALLING AND DIFFERENTIAL STICKING. T PRODUCT IS COMPATIBLE W/ SEAWATER AND MONOVALENT BRINE-BASED DRILLING FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY). PALLET, PLASTIC TYPE, HEAVY-DUTY SIZE (W X L X H), 120 X 120 X 15 CM, DOUBLE-DECK, 4- WAY ENTRY, RACKABLE/STACKABLE, ANTI-SLIP, CHEMICAL AND WEATHER RESISTANT, HYGIENIC AND RECYCLABLE AND SHALL BE CERTIFIED (BY A SAUDI ARAMCO RECOGNIZED INDEPENDENT MATERIALS TESTING AGENCY) FOR MINIMUM STATIC LOAD CAPACITY AS PER ISO 8611, MS 8314-05 PALLET PACKING SPECIFICATION.
28	Drilling & Chemicals	6000003659	COMPLETION ASSY: TUBING; WLHD; 2-5M	COMPLETION ASSEMBLY TUBING; WELLHEAD, OIL TYPE, PR API 2 - 5M PSI FOR H2S, CO2 AND AMINE, PSL 2, MR DD, PR 2 (APPENDIX F), TR O API-6A, NACE MR0175 45-SAMSS-005, TO BE API MONOGRAMMED
29	Drilling & Chemicals	6000003721	MUDLINE SUSPENSION: RUNNING & TIEBACK	SUSPENSION SUB-SEA MUDLINE; HANGERS, RUNNING AND RETRIEVING, AND TIEBACK TOOLS TYPE, 45-SAMSS-005, API 6A AND 17D, FOR OIL AND EXPLORATION WELLS API MONOGRAMMED OR NON-MONOGRAMMED NACE MR0175 LOW ALLOY STEEL OR INCONEL MATERIAL
30	Drilling & Chemicals	6000004033	NIPPLE: LANDING	NIPPLE LANDING; ALL SIZES AND PROFILES (X, XX, R, RN AND RPT)
31	Drilling & Chemicals	6000004087	VALVE: SUB-SURFACE SAFETY	VALVE; SUB-SURFACE SAFETY TYPE, SIZE ANY, API-14A, NACE MR-01-75/ ISO 1515, API MONOGRAMMED, API MONOGRAMMED
32	Drilling & Chemicals	6000004305	ELECTRICAL SUBMERSIBLE PUMP SYSTEM	PUMP SUBMERSIBLE; ELECTRIC SUBMERSIBLE PUMP. PUMP/MOTOR ASSEMBLY SYSTEM INCLUDES BOTH SURFACE AND DOWNHOLE EQUIPMENT. SURFACE SKIDS INCLUDE, BUT NOT LIMITED TO VARIABLE SPEED DRIVE, TRANSFORMERS, DISTRIBUTION PANEL, LOOP SWITCHES, JUNCTION BOX, SURFACE CABLE WELLHEAD PENETRATOR, DOWNHOLE EQUIPMENT INCLUDES, BUT NOT LIMITED TO, CABLE PACKER, PACKER PENETRATOR, MOTOR LEAD EXTENSION, AUTO FLOW VALVE, Y-TOOL, WIRELINE PLUGS, CABLE PROTECTOR, PUMP, SEAL, MOTOR, SENSOR, PUP JOINT, ADJUSTABLE SLUB, POD, SHROUD, USE REPLACEMENT 9COM 6000002370.
33	Drilling & Chemicals	6000016111	DRAG REDUCING AGENT (DRA)	CHEMICAL; ANY, SAE-P-501, DRA IT IS A CHEMICAL THAT IS COMPOSED OF LONG CHAINS OF VERY HIGH MOLECULAR WEIGHT POLYMERS SUSPENDED IN A CARRIER FLUID USED IN FLUID-TRANSPORTING-PIPELINE TO REDUCE PIPELINE FRICTIONAL LOSSES/PRESSURE DROP FOR THE PURPOSE OF INCREASING PIPELINE FLOW RATE AND/OR DECREASING PIPELINE OPERATING PRESSURE
34	Drilling & Chemicals	6000016171	ADSORBENT: REMOVAL OF Hg, BTEX, HC	ABSORBENT; ANY TYPE, ANY FORM, ADSORBENT: FOR REMOVAL OF MERCURY, MERCAPTANS, HYDROCARBON (BTEX) OR VOLATILE ORGANIC COMPOUND FROM NATURAL GAS, HYDROCARBON CONDENSATE, LPG, NATURAL GASOLINE AND NAPHTHA AND WATER. IT INCLUDES ACTIVATED CARBON, SULFUR/POTASSIUM IODIDE IMPREGNATED CARBON, METAL SULFIDE OR METAL OXIDE
35	Electrical	6000000806	CABLE, SUBMARINE POWER SKV THROUGH 35KV	CABLE ELECTRICAL HIGH VOLTAGE; 5 KV THROUGH 35 KV SUPPLY, ANY CONDUCTO, SUBMARINE POWER CABLE TYPE, COPPER CONDUCTO, XLPE OR EPR INSUL, POWER TYPE, 15-SAMSS-503, AEIC C56 OR C58
36	Electrical	6000000903	SWITCH; DISCONNECT; HIGH VOLTAGE;	SWITCH DISCONNECT; HIGH VOLTAGE, ANY ACTION, ELECTRICAL TYPE, 30-TMSS-01
37	Electrical	6000000937	ADJUSTABLE FREQUENCY DRIVE LESS THAN 1KV	DRIVE VARIABLE SPEED; ANY RPM OUTP, IEC 60146 / 61136 OR NEMA ICS7, AFD SYSTEM, LESS THAN 1KV
38	Electrical	6000000947	BATTERY CHARGER/ RECTIFIER MORE 100 ADC	CHARGER FLOAT BATTERY; FLOAT VOLTAGE, ANY OUTPUT, GRATER OR EQUAL TO 100 AMP DC OUTPUT, ANY BATTERY, 17-SAMSS-514
39	Electrical	6000000951	BATTERY; LEAD ACID; STATIONARY; FLOODED	BATTERY LEAD ACID STATIONARY; FLOODED ELECTROLYTE TYPE, 2-6 VDC, 17-SAMSS-511
40	Electrical	6000000996	MOTOR: INDUCTION, 500 HP AND ABOVE, HOR	MOTOR INDUCTION; 500 HP AND ABOVE POWER, 4000 V AND ABOVE, 3 PHASE, TEFC/TEAAC/CACA ENCLOSUR, HORIZONTAL MTG, 17-SAMSS-502, FORM-WOUND
41	Electrical	6000001012	UPS SYS ABOVE 10 TO 200KVA FOR PLANTS	POWER SUPPLY UNINTERRUPTIBLE; ABOVE 10 KVA UP TO 200 KVA POWER, 17-SAMSS-516, SAE-S-103, INDUSTRIAL PLANTS PRODUCT RANGE
42	Electrical	6000015510	ANODE; GALVANIC, HIGH TEMPERATURE ZINC, CP	ANODE GALVANIC; HIGH TEMPERATURE ZINC, 17-SAMSS-006, CATHODIC PROTECTION
43	Electrical	6000017041	SWITCHGEAR; SF6, INDOOR 13.8 & 34.5 kV	SWITCHGEAR; SF6 GAS INSULATED TYPE, 13.8 AND 34.5KV, ANY BIL, SDMS-05, S-P-116, SF6 GAS INSULATED METAL CLAD 13.8 AND 34.5KV SWITCHGEARS, MAXIMUM RATING IS 2500A
44	Gen Sup & Bldg. Mat.	6000000390	CHAIN; LOAD RATED; GRADE 80 OR 100	CHAIN LOAD RATED; ANY TRADE S, ANY LOAD, M A931, M A973, CHAIN 80 OR 100 FOR SLINGS LIFTING ASSEMBLIES EXCLUDING POWER ANCHOR CHAIN DE RATED HORE NMSMISSION AND
45	Gen Sup & Bldg. Mat.	6000000583	FLUOROPOLYMER COATED STUDS & NUTS	STUD; CONTINUOUS THREAD TYPE, ANY, FLUOROPOLYMER COATED, ANY LG, 09-SAMSS-107, SUPPLIED WITH OR WITHOUT COATED NUTS. FASTENERS, NUTS OR ANCHOR BOLTS SHALL BE SOURCED FROM SA APPROVED SOURCES FROM SA APPROVED SOURCES. LINKED TO 9COMS 6000000577, 6000000580 OR 6000000573
46	Heat Transfer Equip	6000002340	BLOWER; CENTRIFUGAL	BLOWER; CENTRIFUGAL TYPE, ANY, 31-SAMSS-001 CHAPTER 2 OR 3
47	Heat Transfer Equip	6000002433	HEAT EXCHANGER; AIR COOLED; 32-SAMSS-11;	HEAT EXCHANGER AIR COOLED; ANY TYPE, ANY INTL/OTL, 32-SAMSS-011, NOTICE TO REQUISITIONER: THIS 9COM REQUIRES REQUISITION TEMPLATE FOR CREATING MATERIAL PO TEXT ACCESS TEMPLATE VIA HTTPS://SHAREK.ARAMCO.COM/S A/ORG/330003143/30012601/3 0 014160/DOCUMENT/PRT/RT_TREE .HTM REPLACE THIS MESSAGE WITH YOUR MATERIAL PO TEXT
48	Heat Transfer Equip	6000002487	BUNDLE; TUBE; 32-SAMSS-007;	BUNDLE TUBE; ANY TYPE, 32-SAMSS-007
49	Heat Transfer Equip	6000002508	FLARE; PROCESSED PLANT; INCLUDING TEMPER	FLARE; PROCESSED PLANT TYPE, 32-SAMSS-022, ENGINEERING AND SUPPLY FLARE SYSTEMS. INCLUDING TEMPERATURE CONTROLS, IGNITERS WITH ACCESSORIES, STACK INCLUDES BLOWERS, FLARE TIP WITH ACCESSORIES, SEAL GAS WITH ACCESSORIES, AND BURNPIT WITH ACCESSORIES. RE DR
50	Heat Transfer Equip	6000002529	HEAT EXCHANGER; SHELL & TUBE; ALL MATL O	HEAT EXCHANGER SHELL & TUBE; ANY TUBE DIA, ANY INTL/OTL, ANY INTL/OTL, ALL MATL OTHER THAN CARBON STEEL & LOW ALLOY STEEL OR SHELL, WALL THK GREATER THAN 38 MM (1.5 IN) TUBE THK, 32-SAMSS-007
51	Heat Transfer Equip	6000011229	BURNER; HIGH INTENSITY, FOR SULFUR	BURNER; HIGH INTENSITY TYPE, HIGH INTENSITY, FOR SULFUR RECOVER UNIT REACTION FURNACE
52	Heat Transfer Equip	6000013471	BURNER; HIGH INTENSITY, FABRICATORS	BURNER; HIGH INTENSITY BURNER FABRICAT TYPE, FOR SULFUR RECOVER UNIT REACTION FURNACE

Sr	COMMODITY	9COM	SHORT DESCRIPTION	LONG DESCRIPTION
53	Instrumentation	600000208	FITTING; TUBING; 316 SS OR BETTER	FITTING; COMPRESSION TYPE,316 STAINLESS STEEL,316 STAINLESS STEEL OR BETTER
54	Instrumentation	600000221	TUBING; INSTRUMENTATION; METALLIC	TUBING; INSTRUMENTATION TYPE,STAINLESS STEEL OR NICKEL ALLOYS,ASTM A269,WITH SIZE 3/4 INCH (18 MM) OR SMALLER.
55	Instrumentation	6000002549	Non-Reclosing Pressure Relief Devices	Non-Reclosing Pressure Relief Devices
56	Instrumentation	6000002689	CALIBRATION GAS CYLINDER FOR GAS MONITOR	CYLINDER; CALIBRATION GAS TYPE,SIZE ANY,ANY,FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY
57	Instrumentation	6000002738	FLOWMETER; ULTRASONIC;	FLOWMETER; ULTRASONIC TYPE,34-SAMSS-010,SPOOL OR IN-LINE TYPE
58	Instrumentation	6000002782	MONITOR; GAS; COMBUSTIBLE;	MONITOR GAS; COMBUSTIBLE,ANY RANGE,34-SAMSS-514
59	Instrumentation	6000002792	Orifice;Assembly;Plate;Flange;Sealing	ORIFICE; ANY TYPE,SIZE ANY,ASSEMBLY: PLATE, FLANGE, SEALING RING
60	Instrumentation	6000002901	ACTUATOR; VALVE; ELECTRIC; ACTUATOR: FOR	ACTUATOR VALVE ELECTRIC; SIZE ANY,ANY ACTION,34-SAMSS-716,ACTUATOR: FOR OPERATING VALVE ELECTRIC MOTOR
61	Instrumentation	6000002914	ANALYZER; GAS CHROMATOGRAPH; Sheltered	ANALYZER; GAS CHROMATOGRAPH TYPE,ANY RANGE,34-SAMSS-510,PROCESS GAS OR LIQUID
62	Instrumentation	6000002917	FLOWMETER; MPFM FOR OIL FIELD APPLICATION	FLOWMETER; MPFM FOR OIL FIELD APPLICATION TYPE,34-SAMSS-001,FOR OIL FLOW RATE MEASUREMENT
63	Instrumentation	6000007390	GUIDED WAVE RADAR LEVEL TRANSMITTERS	TRANSMITTER LIQUID LEVEL; GUIDED WAVE RADAR (GWR) TYPE,GUIDED WAVE RADAR (GWR) LEVEL TRANSMITTERS
64	Instrumentation	6000009906	CUSTODY PRESET CONTL, TRUCK LOAD&UNLOAD	COMPUTER FLOW; CUSTODY PRESET CONTROLLER TYPE,34-SAMSS-847,FOR TRUCK LOADING AND UNLOADING SYSTEMS
65	Instrumentation	6000009908	Custody Tank Gauge, Radar	GAUGE TANK LEVEL; ANY TYPE,ANY RANGE,34-SAMSS-321,CUSTODY TANK RADAR GAUGE, CUSTODY TRANSFER TANK LEVEL GAUGING
66	Instrumentation	6000010781	FOUNDATION FIELDBUS (FF) BLOCKS	BLOCK; FOUNDATION FIELDBUS(FF) WIRING TYPE,INCLUDING POWER SUPPLIES, FOR USE WITH FOUNDATION FIELD-BUS INSTRUMENTS ONLY
67	Instrumentation	6000014893	FIBER OPTIC SENSING PLDS	DETECTOR LEAK; FIBER OPTIC TYPE,FOR PIPELINE,SAES-Z-003,THE FIBER OPTIC CABLE SENSING METHOD ANALYSES THE HEAT/TEMP AND THE CONDUCTIVITY OF THE CABLE TO DETECT THE LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLOS) APPLICATIONS.
68	Nonmetallic	6000000037	PIPE & FITTINGS; NONMETALLIC, SUBSEA	PIPE METALLIC; ANY NPS,ANY,PE, PEX, PA, PVDF, PEEK,FLEXIBLE PIPE,ER, INTERMEDIATE LAYERS AND ER SHEATHING STRUCTURE,API 17J,APPLICATIONS: ONSHORE / OFFSHORE WATER AND HYDROCARBON APPLICATIONS, REINFORCEMENT: STEEL AND FIBER
69	Nonmetallic	6000000631	GRATING; FIBERGLASS; STRUCTURAL NON FIRE	GRATING FIBERGLASS; ANY WD,ANY LG,ANY THK,FOR STRUCTURAL NON-FIRE INTEGR,12-SAMSS-023,ANSI/ACMA/FGMC FRP COMPOSITES
70	Nonmetallic	6000000774	TRAY; CABLE, FIBERGLASS	TRAY; CABLE TYPE,FIBERGLASS,NEMA FG-1,S-P-104 SEC. 9
71	Nonmetallic	6000001430	FLOAT COLLAR; FOR MARINE HOSE	BEADS; SIZE ANY,NATURAL OR SYNTHETIC RUBBER SPONGE, POLYVINYL CHLORIDE FOAM, POLYETHYLENE FOAM OTHER SUITABLE MATERIAL.,FLOAT COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION
72	Nonmetallic	6000007813	GRATING; OFFSHORE; FIRE RETARDANT;	GRATING; FIRE RETARDANT TYPE,SIZE ANY,PULTRUDED PHENOLIC RESIN,12-SAMSS-023,NONMETALLIC FIBER-REINFORCED COMPOSITE PLATFORMS. SHORE
73	Nonmetallic	6000013160	PIPE & FITTINGS; NONMETALLIC, RTR	PIPE NON-METALLIC; MAXIMUM 14 IN NPS,REINFORCED THERMOSETTING RESIN,REINFORCED THERMOSETTING RESIN (RTR),FOR WATER (NON-UTILITY) AND HYDROCARBON APPLICATIONS MAX TEMP 200 F.01-SAMSS-042,API 15HR API 15LR
74	Nonmetallic	6000014895	UMBILICAL SYSTEM, SUBSEA, OFFSHORE	PIPE NON-METALLIC; ANY NPS,ANY ISO 13628-5,15-SAMSS-503 15-SAMSS-504,UMBILICAL SYSTEM IS AN INTEGRATED BUNDLE OF TUBES, HOSES, POWER CABLES AND/OR FIBER OPTICS ENCLOSED WITH AN OUTER RING SPECIALLY DESIGNED FOR THE SUBSEA ENVIRONMENT TO WHICH IT WILL BE DEPLOYED. OFFSHORE TO TRANSFER POWER, CHEMICALS, WATER, OIL, GAS, AIR, COMMUNICATIONS AND MORE TO AND FROM SUBSEA DEVELOPMENTS.
75	Nonmetallic	6000017130	FIRE-RETARDANT RTR	PIPE NON-METALLIC; ANY NPS,ANY,01-SAMSS-034, SAES-B-017, ISO 14692,PIPE & FITTING, FIRE-RETARDANT NONMETALLIC RTR FOR ABOVEGROUND FIREWATER SYS. EPOXY BASED REINFORCED THERMOSETTING RESIN PRESSURIZED PIPE. FILAMENT WOUND MANUFACTURING PROCESS WITH ADDITIONAL FIRE RETARDANT LAYER FOR ABOVEGROUND FIREWATER PIPING SYSTEMS (RAW/FIRE COMBINED WATER SYSTEM AND DEDICATED FIREWATER SYSTEM) IN ACCORDANCE WITH FM 1614. FIRE PERFORMANCE CLASSIFICATION AS PER ISO 14692-2 SECTION 6.5.2.
76	Not assigned	6000002461	SKID; NITROGEN GENERATION; MEMBRANE TYPE	SKID; MEMBRANE TYPE,32-SAMSS-038,NITROGEN GENERATION
77	Pipe	6000000017	PIPE; METALLIC,6 IN&LARGER;SAW, LOW TEMP	PIPE METALLIC; ANY NPS,ANY,STEEL,SINGLE STRAIGHT SEAM L-SAW,ASTM A671 CLASS 22 ONLY, ASTM A333,01-SAMSS-043,LOW TEMPERATURE,EITHER TO APPLIED ASTM A671 OR ASTM A333
78	Pipe	6000000062	TUBING; CS; BOILER OR HEAT EXCHANGER	TUBING METALLIC; ANY OD,CARBON STEEL,ASTM,BOILER OR HEAT EXCHANGER, ASTM
79	Pipe	6000000063	TUBING; LOW-ALLOY STEEL; ASTM	TUBING METALLIC; ANY OD,STEEL-ALLOY,ASTM GRADES TP 1, 11, 22, 5 AND 9
80	Pipe	6000000067	TUBING; METALLIC; NICKEL-ALLOY;	TUBING METALLIC; ANY OD,NICKEL-ALLOY,01-SAMSS-047
82	Pipe	6000014200	PIPE: Copper-Nickel, EEMUA, ASTM	PIPE; COPPER NICKEL (CUNI) PIPE OR T TYPE,COPPER-NICKEL
83	Pipe Fittings	6000000076	BOSS; PIPE; WELDING; ANY METAL;	BOSS WELDING; ANY OUTLET,ANY,ANY METAL,ANY METAL
84	Pipe Fittings	6000000078	CAP; PIPE; BW; SS and NI ALLOY	CAP PIPE; BW TERMINAL,NPS,NPS,METALLIC,SEAMLESS,02-SAMSS-013,ASTM / ASME,NOTE: CS, LTCS & LOW ALLOY STEEL CAPS ARE COVERED BY 9COM 6000000079
85	Pipe Fittings	6000000079	CAP; PIPE; BW; CS, LT and LAS	CAP PIPE; BW TERMINAL,ANY NPS,CARBON STEEL AND LOW ALLOY STEEL,02-SAMSS-005,ASTM ASME,MSS-SP,(INCLUDING LOW TEMPERATURE CARBON STEEL)
86	Pipe Fittings	6000000081	CAP; PIPE; SW OR THREADED, ALLOY STEEL	CAP PIPE; SW OR THREADED, NPT TERMINAL,MM, IN NPS,ALLOY STEEL,MM(IN),CLASS SUPPLY,ASTM,GR STEEL GREDE,FORGED, SEAMLESS,BARE FINISH,ANSI B1.20.1,ANSI B16.11,ANSI B16.11,ALLOY STEEL INCLUDING LOW ALLOY STEEL, STAINLESS STEEL, AND NICKEL ALLOY.
87	Pipe Fittings	6000000082	CAP; PIPE; SOCKET WELD OR THREADED; CS	CAP PIPE; SW, NPT TERMINAL,MM, IN NPS,CARBON STEEL,MM(IN),CLASS SUPPLY,ASTM,GR STEEL GREDE,FORGED, SEAMLESS,BARE FINISH,ANSI B12.20.1,ANSI B16.11,ANSI B16.11
88	Pipe Fittings	6000000086	COUPLING; PIPE; SW OR THREADED; CS	COUPLING PIPE; ANY TERMINAL,ANY SIZE NPS,CARBON STEEL,ANY SUPPLY,ANSI B1.20.1,ANSI B16.11,ANSI B1.20.1,ANSI B16.11.
89	Pipe Fittings	6000000089	BRANCH; PIPE; O-LET, ANY STEEL	BRANCH PIPE; ELBOW-LET, WELDLET, THREDLET, SOCKETLET, LATROLET, ETC TYPE,(CARBON STEEL, LT IN ACCORDANCE TO 02-SAMSS-005) ANY STEEL (LOW ALLOY, STAINLESS STEEL, NICKALE ALLOY IN ACCORDANCE TO 02-SAMSS-013),02-SAMSS-005,02-SAMSS-013,ANY SIZE, SPECIAL, INTEGRALLY REINFORCED CONNECTION
90	Pipe Fittings	6000000090	ELBOW; PIPE; BW; SS and NI ALLOY	ELBOW PIPE; BUTT WELDING TERMINAL,STAINLESS STEEL & NICKEL ALLOY,ASTM / ASME,02-SAMSS-013,ASTM ASME, NOTE: CS, LTCS & LOW ALLOY STEEL ELBOWS ARE COVERED BY 9COM 6000000091
91	Pipe Fittings	6000000091	ELBOW; PIPE; BW; CS, LT and LAS	ELBOW PIPE; BUTT WELDING TERMINAL,CARBON STEEL & LOW ALLOY STEEL,02-SAMSS-005,ASTM ASME,MSS-,CARBON STEEL (INCLUDING LOW TEMPERATURE CARBON STEEL) & LOW ALLOY STEEL
92	Pipe Fittings	6000000093	ELBOW; PIPE; SW OR THREADED; ALLOY STEEL	ELBOW PIPE; SW OR THREADED, NPT TERMINAL,MM, IN NPS,ALLOY STEEL,DEGREE DEG,SHORT, LONG, STND RADIUS,MM (IN), SCH,ASTM,FORGED, SEAMLESS,BARE FINISH,CLASS SUPPLY,ANSI B1.20.1,ANSI B16.11,ASTM / ANSI,ALLOY STEEL (INCLUDING LOW ALLOY STEEL, STAINLESS STEEL, NICKEL ALLOYS).
93	Pipe Fittings	6000000094	ELBOW; PIPE; SW OR THREADED; CS	ELBOW PIPE; SW, NPT TERMINAL,MM, IN NPS,CARBON STEEL (CS AND LOW TEMPERATURE STEEL),DEGREE DEG,SHORT, LONG, STND RADIUS,MM(IN),SCH,ASTM,FORGED, SEAMLESS,BARE FINISH,CLASS SUPPLY,ANSI B1.20.1,ANSI B1.16.11,ASTM / ANSI
94	Pipe Fittings	6000000098	FLANGE; PIPE; ASSEMBLY; SWIVEL RING ; CS	FLANGE PIPE; ANY TYPE,ANY NPS,ANY,CAMLOCK
95	Pipe Fittings	6000000100	FLANGE; PIPE; BLIND;CS AND LOW ALLOY ST.	FLANGE PIPE; BLIND TYPE,ANSI, API SUPPLY,FLANGED TERMINAL,IN NPS,MM (IN),MM (IN) FLG BORE,CARBON STEEL AND LOW ALLOY ST.,ASTM,02-SAMSS-011
96	Pipe Fittings	6000000101	FLANGE; PIPE; BLIND; ALLOY STEEL;	FLANGE PIPE; BLIND TYPE,ALL SIZES NPS,HIGH ALLOY AND STAINLESS STEEL AND NICKEL ALLOY,02-SAMSS-011
97	Pipe Fittings	6000000107	FLANGE;PIPE;SLIP ON;CS AND LOW ALLOY ST.	FLANGE PIPE; SLIP ON TYPE,ANY NPS,CARBON STEEL AND LOW ALLOY ST.,ANSI B16.5,02-SAMSS-011
98	Pipe Fittings	6000000114	FLANGE; PIPE; WN; ALLOY STEEL;SS;NICKEL	FLANGE PIPE; WN TYPE,ANY NPS,HIGH ALLOY AND STAINLESS STEEL AND NICKEL ALLOY,02-SAMSS-011
99	Pipe Fittings	6000000115	FLANGE; PIPE; WN; CS AND LOW ALLOY ST.	FLANGE PIPE; WN TYPE,ANSI SUPPLY,FLANGED TERMINAL,IN NPS,MM (IN),MM (IN) FLG BORE,CARBON STEEL AND LOW ALLOY ST.,02-SAMSS-011
100	Pipe Fittings	6000000123	NIPPLE; PIPE; ANY METAL	NIPPLE PIPE; SIZE IN,IN LG,ASTM,BARE FINISH,ASTM,ANSI,SEAMLESS
101	Pipe Fittings	6000000126	REDUCER; PIPE; BW; SS and NI ALLOY	REDUCER PIPE; BUTT WELD TERMINAL,STAINLESS STEEL AND NICKEL ALLOY,02-SAMSS-013,ASTM ASME,NOTE: CS, LTCS AND LOW ALLOY REDUCERS ARE COVERED BY 9COM 6000000127
102	Pipe Fittings	6000000127	REDUCER; PIPE; BW; CS, LT and LAS	REDUCER PIPE; BW TERMINAL,CARBON STEEL AND LOW ALLOY STEEL,02-SAMSS-005,ASTM ASME,MSS-SP,(INCLUDING LOW TEMPERATURE CARBON STEEL)
103	Pipe Fittings	6000000145	TEE; PIPE; BW; SS and NI ALLOY	TEE PIPE; BW TERMINAL,STAINLESS STEEL AND NICKEL ALLOY,02-SAMSS-013,ASTM ASME,NOTE: CS, LTCS AND LOW ALLOY STEEL TEES ARE COVERED BY 9COM 6000000146
104	Pipe Fittings	6000000146	TEE; PIPE; BW; CS, LT and LAS	TEE PIPE; BW TERMINAL,CARBON STEEL, AND LOW ALLOY ST,02-SAMSS-005,ASTM ASME,MSS-,(INCLUDING LOW TEMPERATURE CARBON STEEL)
105	Pipe Fittings	6000000148	TEE; PIPE; SOCKET OR THREADED; ALLOY STE	TEE PIPE; SOCKET OR THREADED TERMINAL,ANY NPS,ALLOY STEEL,ANSI B16.11,ANSI B16.11
106	Pipe Fittings	6000000149	TEE; PIPE; SOCKET WELD OR THREADED; CS	TEE PIPE; SW, NPT TERMINAL,MM, IN NPS,CARBON STEEL,MM (IN), SCH,ASTM,FORGED, SEAMLESS,BARE FINISH,CLASS SUPPLY,ANSI B1.20.1,ANSI B16.11,ASME B16.11
107	Pipe Fittings	6000000181	FLANGE; PIPE; COPPER NICKEL, EEMUA 234	FLANGE PIPE; ALL DESIGNS TYPE,ANY NPS,ANY,EEMUA 234,COPPER-ALLOY FLANGES AND CS BACKING (LAP JOINT) FLANGES PER EEMUA 234. OR OTHER COPPER ALLOYS AS PER ASME 16.5, PIPE FLANGES AND FLANGED FITTINGS, UTILITY, NON-HYDROCARBON.
108	Pipe Fittings	6000000189	FLANGE;PIPE;CLAMP;COMPLETE ASSY;W/ HUBS	FLANGE PIPE; ANY TYPE,ANY NPS,CS, AS, SS,API 6A,ASME VIII DIV 2,CLAMP, COMPLETE ASSY,W/HUBS SEAL RING, BOLTS AND NUTS, ANY SIZE
109	Pipe Fittings	6000001443	LOADING ARM; MARINE	ARM; MARINE LOADING ARM TYPE,FOR OFFSHORE USE SELF-SUPPORTED WITH TRIPLE SWIVEL ASSEMBLY (TSA) EMERGENCY RELEASE SYSTEM (ERS) & QUICK CONNECT/DISCONNECT COUPLER (QDC) CONSTRUCTION SPECIFICATION FOR MARINE LOADING ARMS 1999. OCIMF DESIGN &
110	Pipe Fittings	6000014202	FITTING; PIPE; CUNI;ALL TYPES;EEMUA 234	FITTING; PIPE; EEMUA 234,CUNI PIPE FITTINGS, ALL TYPES, INCLUDING ELBOWS, TEES, REDUCERS, CAPS, COUPLING, BRANCH CONNECTION, BW OR SW OR THREADED AS PER EEMUA 234. NON-HYDROCARBON UTILITY.

Sr	COMMODITY	9COM	SHORT DESCRIPTION	LONG DESCRIPTION
111	Pumps	6000002342	PUMP, CENTRIFUGAL; SELF-PRIMING; MFR STD	PUMP CENTRIFUGAL; SELF-PRIMING TYPE,SIZE ANY,ANY,SINGLE STAGE(S),MFR STANDARD
112	Pumps	6000002361	PUMP, RECIPROCATING, 31-SAMSS-009	PUMP RECIPROCATING; POSITIVE DISPLACEMENT, CONTROLLED VOLUME TYPE,ANY,31-SAMSS-009
113	Pumps	6000002366	PUMP, CENTRIFUGAL; MAG-DRIVE; HORIZ; ASME	PUMP CENTRIFUGAL; MAGNETIC DRIVE TYPE,SIZE ANY,ANY,SINGLE STAGE(S),HORIZONTAL MTG,ASME B73.3M / ISO15783
114	Pumps	6000002368	PUMP, RECIPROCATING, 31-SAMSS-674	PUMP RECIPROCATING; PISTON, PLUNGER TYPE,ANY,API 674
115	Pumps	6000015670	PUMP, CENTRIFUGAL; API 685 SEALLESS	PUMP CENTRIFUGAL; API 685 SEALLESS TYPE,SIZE ANY,ANY,SINGLE STAGE(S),31-SAMSS-685
116	Safety & Security Equip	6000001310	HYDRANT; FIRE; CASTED; 6 IN INLET	HYDRANT FIRE; 6 IN INLET, PR 200 PSI WP, UL OR/AND FM,COMPLYING WITH 21-SAMSS-15. WITH OR WITHOUT FIRE MONITOR FLANGE. WITH OR WITHOUT BREAKABLE FLANGE CHECK VALVE ASSEMBLY FOR BREAKABLE FLANGE VALVE SEPARATELY. PURCHASE ORDER MUST SPECIFY THE OPTIONS AS PER 21-SAMSS-15.
117	Safety & Security Equip	6000001314	MONITOR; FIRE FIGHTING; HYDRANT-MOUNTED	MONITOR; FIREFIGHTING, HYDRANT-MOUNTED MANUALLY OPERATED TYPE,ANY RANGE, MEETING 21-SAMSS-16, INDUSTRIAL MONITOR SYSTEM, WILL BE INSTALLED ON# 9COM 6000001310
118	Safety & Security Equip	6000018480	FENCE, CRASH RATED BARRIER	FENCE; LAND SECURITY SURVEILLANCE RADAR TYPE,SAES-O-205,FOR HUMAN, VEHICLES AND OBJECTS DETECTION FOR UP TO 5KM RANGE. TESTED AND CERTIFIED WITH THE REQUIRED DOCUMENTATION.
119	Safety & Security Equip	6000018510	DEVICE: SECURITY MARINE FLOATING BARRIER	DEVICE; FLOATING BARRIER URITY MARINE FLOATING TYPE,F2766 & SAES-O-313,DESIGNED TO STOP SMALL TO MEDIUM SURFACE POWER BOATS FOR COASTAL AND OFFSHORE FACILITIES APPLICATIONS. THE BARRIER IS TO BE TESTED AND CERTIFIED WITH REQUIRED DOCUMENTATIONS IN ACCORDANCE TO ASTM-F2766 LEVEL-B AS MINIMUM.
120	Safety & Security Equip	6000018511	DEVICE: LAND SECURITY SURVEILLANCE RADAR	DEVICE; LAND SECURITY SURVEILLANCE RADAR TYPE,SAES-O-205,FOR HUMAN, VEHICLES AND OBJECTS DETECTION FOR UP TO 5KM RANGE. INTEGRATES WITH EXISTING COMMAND CENTER APPLICATION FOR INTEROPERABILITY WITH OTHER LONG-RANGE SYSTEM COMPONENTS.
121	Safety & Security Equip	6000018520	FENCE, COMBINED SECURITY FENCE	FENCE; COMBINED FENCE TYPE,ASTM F2656, F2781 AND SAES-O-202,FOR PERSONNEL AND VEHICLES FORCED ENTRY PREVENTION. TESTED AGAINST ASTM F2656 & ASTM F2781 WITH THE REQUIRED DOCUMENTATION.
122	Safety & Security Equip	6000018522	BARRIER, DEPLOYABLE CRASH RATED	BARRIER, CRASH-RATED TYPE,ASTM F2656, SAES-O-206,FOR VEHICLES FORCED ENTRY PREVENTION AND TRAFFIC CONTROL AT SECURITY GATES, INTEGRATES WITH EXISTING SECURITY DEVICES. TESTED AND CERTIFIED WITH REQUIRED DOCUMENTATIONS AND IN LINE WITH ASTM F2656.
123	Safety & Security Equip	6000018524	CAMERA, LONG RANGE OPTICAL AND THERMAL	CAMERA, LONG RANGE OPTICAL AND THERMAL TYPE,SAES-O-205 AND SAES-O-313,FOR ONSHORE AND OFFSHORE SECURITY SURVEILLANCE, WITH HIGH-DEFINITION ZOOMING CAPABILITY TO RECOGNIZE AND IDENTIFY OBJECTS AT RANGE ABOVE 3KM UNDER VARIOUS WEATHER CONDITION. SEAMLESSLY INTEGRABLE WITH COMMAND AND CONTROL APPLICATION FOR INTEROPERABILITY WITH OTHER SECURITY DEVICES, SYSTEMS, AND APPLICATION.
124	Turbines	6000002496	TURBINE, STEAM; GENERAL PURPOSE	TURBINE STEAM; ANY,ANY STAGE(S),32-SAMSS-009
125	Turbines	6000002497	TURBINE, STEAM; SPECIAL PURPOSE	TURBINE STEAM; ANY,ANY STAGE(S),32-SAMSS-010, API 612,SPECIAL PURPOSE, FOR MECHANICAL DRIVE APPLICATION
126	Turbines	6000013960	TURBINE STEAM; SPECIAL PURPOSE FOR GENER	TURBINE STEAM; ANY,ANY STAGE(S),32-SAMSS-001, API 612,SPECIAL PURPOSE, FOR GENERATOR DRIVES
127	Valves	6000000248	VALVE; BALL; SPLIT BODY; TRUNNION; API6A	VALVE, BALL; SIZE ANY,2000-5000 PSI SUPPLY SUPPLY,FLANGED OR BUTTWELD END CONN,STEEL BODY,STYLE SPLIT BODY,TRUNNION SUPPORTED SUPPORT,SOFT SEATED SEAT,04-SAMSS-055,API 6A,WITH OR WITHOUT ACTUATOR
128	Valves	6000000268	VALVE;CHECK;2 IN&UP;ANSI 150;DUAL PLATE	VALVE CHECK; SIZE 2 INCH AND UP,ANSI 150 AND UP SUPPLY,STEEL BODY,DUAL PLATE,WAFFER END CONN,04-SAMSS-035,04-SAMSS-048 API 594
129	Valves	6000000269	VALVE; CHECK; STEEL; NOZZLE;	VALVE CHECK; SIZE ANY, STEEL BODY, NOZZLE SPRING CONTROLLED, FLANGED OR BUTTWELD END CONN, 04-SAMSS-035, 04-SAMSS-048, NON-SLAM
130	Valves	6000000270	VALVE; CHECK; 1/2 THRU 2 INCH; STEEL; TH	VALVE CHECK; SIZE 1/2 THRU 2 INCH,STEEL BODY,ANY, THREADED, SOCKETWELD, FLANGED OR BUTT WELD ENDS END CONN,04-SAMSS-035,04-SAMSS-048
131	Valves	6000000272	VALVE; BUTTERFLY; HIGH PERFORMANCE	VALVE BUTTERFLY; HIGH PERFORMANCE, TRIPLE ECCENTRIC DESIGN TYPE,SIZE ANY,04-SAMSS-047,04-SAMSS-035 API 609 CATEGORY B,04-SAMSS 04-SAMSS-048 04-SAMSS-048,API 609 CATEGO,METAL SEATED, ZERO LEAKAGE WITH OR WITHOUT ACTUATOR BETTERLY VALVE METAL SEATED, ZERO LEAKAGE. ANY SIZE AND ANY RATING FLANGED OR BETTWELD ENDS API 609 CATEGORY B
132	Valves	6000000275	VALVE; CHECK;SWING;UP TO 12 IN; CI OR DI	VALVE CHECK; SIZE UP TO 12 INCH,CAST OR DUCTILE IRON BODY,SWING,FLANGED, LUG OR WAFER END CONN,04-SAMSS-035,04-SAMSS-048 04-SAMSS-005
133	Valves	6000000289	VALVE; GATE; THRU CONDUIT; METAL SEATED;	VALVE GATE THRU CONDUIT; SIZE NPS 2 AND UP,ASME CL 150 AND UP SUPPLY,FLANGED OR BUTTWELD END CONN,STEEL BODY,04-SAMSS-050,METAL SEATED, WITH OR WITHOUT ACTUATOR
134	Valves	6000000292	VALVE; GATE; UP TO 12 INCH; NON-FERROUS;	VALVE GATE; SIZE UP TO NPS 12,ANY RATING, ALLENS SUPPLY,NON-FERROUS, (BRONZE/ALUMINUM-BRONZE BODY,04-SAMSS-035,04-SAMSS-048 04-SAMSS-001,WITH OR WITHOUT ACTUATOR
135	Valves	6000000294	VALVE; GATE; WEDGE; 26 INCH AND UP; FLAN	VALVE GATE WEDGE; FLEXIBLE TYPE,SIZE NPS 26 AND UP,ANY SUPPLY,FLANGED OR BUTTWELD END CONN,STEEL BODY,04-SAMSS-001,04-SAMSS-035 04,WITH OR WITHOUT ACTUATOR
136	Valves	6000000295	VALVE; GATE; WEDGE; UP TO 4 INCH; THREAD	VALVE GATE WEDGE; SIZE UP TO NPS 4,ANY RATING SUPPLY, THREADED,SOCKETWELD, FLANGED OR BUTTWELD END CONN,STEEL BODY,API 602,04-SAMSS-035 04-SAMSS-048,WITH OR WITHOUT ACTUATOR, SPECIAL ENDS
137	Valves	6000000296	VALVE; GATE; WEDGE OR DBL DISC; UP TO 12	VALVE GATE; SIZE UP TO NPS 12,ANY RATING, ALLENS SUPPLY,CAST OR DUCTILE IRON BODY,04-SAMSS-035,04-SAMSS-048 AWWA,WITH OR WITHOUT ACTUATOR
138	Valves	6000000297	VALVE; GATE; WEDGE OR DOUBLE DISC; 14 IN	VALVE GATE; SIZE NPS 14 AND ABOVE,ANY RATING, ALLENS SUPPLY,CAST OR DUCTILE IRON BODY,04-SAMSS-035,AWWA,WITH OR WITHOUT ACTUATOR
139	Valves	6000000302	VALVE; GLOBE; CAST OR DUCTILE IRON;	VALVE GLOBE; ANY NPS,ANY RATING SUPPLY,ANY ENDS END CONN,CAST OR DUCTILE IRON BODY,04-SAMSS-035,04-SAMSS-048 04-SAMSS-002,WITH OR WITHOUT ACTUATOR, ANY SIZE
140	Valves	6000000304	VALVE; INSTRUMENT; ANY MATERIALS	VALVE; INSTRUMENT TYPE,SIZE ANY SIZE,ANY PRESSURE RATING SUPPLY,ANY MATERIAL BODY,04-SAMSS-035,04-SAMSS-048
141	Valves	6000000307	VALVE; PLUG; EXPANDING;04-SAMSS-041;	VALVE PLUG; EXPANDING TYPE,SIZE ANY SIZE,ANY PRESSURE RATING SUPPLY,ANY END CONN,STEEL BODY,04-SAMSS-041,04-SAMSS-035 04-SAMSS-048,WITH OR WITHOUT ACTUATOR
142	Valves	6000000308	VALVE; PLUG; LUBRICATED	VALVE PLUG; LUBRICATED TYPE,SIZE ANY SIZE,ANY PRESSURE RATING SUPPLY,ANY END CONN,STEEL BODY,04-SAMSS-035,04-SAMSS-048 04-SAMSS-053,04-SAMSS-055 ASME B16.34,API 599 API 6A,WITH OR WITHOUT ACTUATOR,ASME CLASS 150 AND UP, API 2000 TRHU 5000.
143	Valves	6000000315	VALVE; CHOKE; CAGE SINGLE STAGE, 10KSI	VALVE CHOKE; PLUG-AND-CAGE SINGLE STAGE TRIM TYPE,UPTO 6 INCH MAXIMUM ORIFICE BODY,PR 10,000 PSI,FLANGED HUBBED OR BUTTWELD END CONN,STEEL BODY,04-SAMSS-055,API 6A,WITH OR WITHOUT ACTUATOR
144	Valves	6000000323	VALVE; CHECK; API 6A 2000-5000; STEEL; S	VALVE CHECK; SIZE ANY,2000-5000 SUPPLY SUPPLY,STEEL BODY,SWING,FLANGED, BUTTWELD OR HUBBED END CONN,04-SAMSS-055, API 6A
145	Valves	6000012420	VALVE; BALL,NPS 26&UP ASME CLASS 150&UP	VALVE BALL; SIZE NPS 26 AND UP,ASME CLASS 150 AND UP SUPPLY,FLANGED OR BUTTWELDED END CONN,STEEL BODY,STYLE SPLIT BODY,TRUNNION SUPPORTED SUPPORT,SOFT SEATED SEAT,04-SAMSS-051,04-SAMSS-035 04-SAMSS-048,WITH OR WITHOUT ACTUATOR
146	Valves	6000013742	VALVE; BALL; DOUBLE ISOLATION TWIN	VALVE; BALL; SIZE UP TO 24 IN,ANSI CL 150 AND UP SUPPLY,FLANGED OR BUTTWELD END CONN,ANY BODY,STYLE SPLIT BODY,TRUNNION SUPPORTED SUPPORT,04-SAMSS-048,04-SAMSS-035 04-SAMSS-051,DOUBLE ISOLATION TWIN BALL WITH OR WITHOUT ACTUATOR
147	Valves	6000015607	VALVE; BALL;MS, 2-1/16 IN & UP,2K-5K PSI,	VALVE, BALL; SIZE 2-1/16 IN AND UP,2000-5000 PSI SUPPLY,FLANGED, HUBBED OR BUTTWELD END CONN,ANY BODY,STYLE SPLIT BODY OR TOP ENTRY,TRUNNION SUPPORTED SUPPORT,METAL SEATED SEAT,04-SAMSS-055,API 6A