

Aramco Asia India Private Limited, 2A-801, 8th Floor, Two Horizon Center, DLF Phase 5, Sector 43, Gurugram 122002, Haryana, India				
2025 MATERIAL SOURCING LIST ; Updated October 2025				
Sr	COMMODITY	9COM	SHORT DESCRIPTION	LONG DESCRIPTION
1	Compressors	6000002245	COMPRESSOR;CENTRIFUGAL;BEAM-TYPE-API-617	COMPRESSOR; CENTRIFUGAL BEAM-TYPE TYPE-API-617-31-SAMSS-001,NOTICE TO REQUISITIONER: THIS 9COM REQUIRES REQUISITION TEMPLATE FOR CREATING MATERIAL PO TEXT ACCESS TEMPLATE VIA HTTP:// PSCD.ARAMCO.COM.SA/PRT/ REPLACE THIS MESSAGE WITH YOUR MATERIAL PO TEXT
2	Compressors	6000002338	COMPRESSOR; DRY-SCREW, FOR AIR SERVICE	COMPRESSOR; DRY-SCREW TYPE-31-SAMSS-002,FOR AIR SERVICE
3	Compressors	6000014210	COMPRESSOR; PROCESS; CENTRIFUGAL INTEGRALLY	COMPRESSOR PROCESS; CENTRIFUGAL, INTEGRALLY GEARED TYPE, FOR ANY,31-SAMSS-001, API 617
4	Compressors	6000018570	COMPRESSOR; SLIDING VANE FOR PROCESS GAS	COMPRESSOR; SLIDING VANE TYPE,3600 RPM MAX RPM, MOTOR DRIVER,FOR PROCESS GAS RECOVERY APPLICATION.
5	Compressors	6000018580	COMPRESSOR; DIAPHRAGM FOR PROCESS GAS AP	COMPRESSOR; DIAPHRAGM TYPE,MOTOR DRIVER,FOR PROCESS GAS APPLICATION.
6	Drilling & Chemicals	1000021558	CALCIUM HYDROXIDE (HYDRATED LIME)	CALCIUM HYDROXIDE (HYDRATED LIME) ADDITIVE DRILLING FLUID; DRY, FREE FLOWING FINE POWDER FORM,CALCIUM HYDROXIDE, CA(OH)2,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)2, 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 CONFIRM TO SAUDI ARAMCO EXPORT PACKING MANUAL. , CALCIUM HYDROXIDE CA(OH)2 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)2: 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% HYDROCHLORICACID): 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.
7	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 WALLCAKE, OIL WETS AND LUBRICATS 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 FLUI A LIQUID BLEND OF LUBRICANTS, VISCOSIFIERS OIL WETTING SURFACTANTS CONCENTRATED EMULSIFIERS AND LUBRICANTS. SPOTTING AND SOAKING A PILL OF TH MIXTURE UNDER THE STUCK PIPE, DEHYDRATES AND PENETRATES THE WALLCAKE, OIL WETS AND LUBRICATES THE DRILLSTRING TO REDUC THE FORCE REQUIRED TO FR STUCK PIPE.CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DARK BROWN VISCOUS LIQUID. FLASH POINT (PMCC): > 84°F (28.9°C)SPECIFIC GRAVITY 68°F (20°C):0.90 – 0.98 SAUDI ARAMCO RESERVES TH 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 (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). 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.
8	Drilling & Chemicals	1000182387	CHEMICAL: GR TECHNICAL, 2-(2	CHEMICAL; GR TECHNICAL-2-(2 AMINOETHOXY) ETHANOL,FOR ACID INHIBITOR TO REMOVE CO2 & H2S FROM NATURAL GAS (SWEETENING PROCESS),LIQUID FORM,BULK DELIVERY, IMPORT 18927 L (5000 US GAL),2-(2-AMINOETHOXY) ETHANOL, DIGLYCOLAMINE "DGA", MISCLBLE WITH WATER & ALCOHOLS, 1.0572 RELATIVE DENSITY AT 20/20 DEG C
9	Drilling & Chemicals	1000182780	ANTIFREEZE: MONO ETHYLENE GLYCOL (MEG)	ANTIFREEZE; MONO ETHYLENE GLYCOL (MEG) TYPE-SPECIFIC GRAVITY 20/20 C 1.115-1.116, DISTILLATO 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)
10	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,60 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 - SODIU SULFITE: ANHYDROUS SODIU SULFITE (NA2SO3) COMMERCIAL GRADE. USED F REMOVING SOLUBLE OXYGEN FROM WATER-BASED DRILLIN FLUIDS AND MONOVALENT BRINES. IT REACTS WITH DISSOLVED OXYGEN TO REDU OXYGEN CORROSION TO FORM SULFATE (SO4-2). THIS REACTION REQUIRES A COBA CATALYST IN THIS CHEMICA 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 (NA2SO3): 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 REPRESENTATY 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. 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.
11	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 5 L 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)
12	Drilling & Chemicals	1000757582	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 VULGULAR 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 LINER, 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 MINERA FIBER LOST CIRCULATION MATERIAL: A SPECIALLY PROCESSED EXTRUSION OF SPUN CRYSTALLINE SILICA MINERAL FIBER AND POWDER USED FOR COMBATING LOST CIRCULATION BY PLUGGING VULGULAR AND FRACTURED SUBSURFACE FORMATIONS DURING DRILLING OR WORKOVER OPERATIONS. THE PRODUCT IS 100% INORGANI NON-FERMENTING, NON-CORROSIVE, NON-TOXIC CONTAINS NO ASBESTOS, AN TEMPERATURE STABLE. IT I COMPATIBLE WITH OIL-BASE AND WATER-BASED FLUID SYSTEMS. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: WHITE TO GRA COLOR, ODORLESS INORGANI 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 LBS./GALLON. 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 (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	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 DENSITY 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 KG, SURFACE AREA 100-260 M2/GRAM, USED IN CLAUS SULFUR REACTORS (CONVERTERS) IN GAS PLANT & REFINERIES (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
14	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)
15	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 PHERICAL 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 DENSITY (ECD), MINIMAL SAG AND CAUSE LESS FORMATION DAMAGE. THE CHEMICAL 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 TETRAOXIDE,1000 KG (2204 LBS.) MULTI-WALL MOISTURE-PROOF POLYETHYLENE UNED 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 WEIGHT THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TCONF 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 APPEREA NC 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: NSOLUBLE, PH (5G IN 50 DI WATER): 7 – 10.5, SPECIFIC GRAVITY @ 68 DE F (20 DEG C): 4.8, MINIM BULK DENSITY: 84 LB/FT3 (950-1050 G/M3), SURFAC AREA: 1 – 5 M2/G.MICROMAX IS ONLY SLIGHTLY SOLUBLEIN ORGANICA 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 PEFICATIONS. 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
16	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 WBM, 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-BASE 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 15 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 WIT THE MATERIAL DESCRIPTION AND SPECIFICATIONS.PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE A 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.

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17	Drilling & Chemicals	1000908540	ENZYME FILTER CAKE BREAKER	HOLEZEYM-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-WEELBORE 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 LIQUID SPECIFIC RAVITY @ 68°F (20°C): 0.91-1.2 FLASH POINT (PMCC): >320° 160(C) P 5.5-17.5. 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 CERTIFICAT 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.
18	Drilling & Chemicals	1000959459	CHEMICAL, GT GRADE, METHYLDIETHANOLAMINE	CHEMICAL; GR GT GRADE,METHYLDIETHANOLAMINE, FOR GAS TREATMENT AGENT, LIQUID FORM, ISO TANK, 2,2-(METHYLIMINO) DIETHANOL N-METHYLDIETHANOLAMINE > 99 %, 2-ETHYLAMINODIETHANOL N-METHYL 2-ETHANOLAMINE < 0.5%, MDEA, COLORLESS, ODOR: AMMONIACAL, PH: 10.4, BOILING POINT (760 MMHG): 247.3 C, VAPOR PRESSURE < 0.01 KPA AT 20 C, VAPOR DENSITY (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.
19	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 WIDE TREATMENT TO 0.05 INCHES (1.27 MM) 10-25 LB/BBL (28.56-71.3 KG/M3) TO 0.10 INCHES (2.54 MM) 25-40 LB/BBL (71.33-114.2KG/M3). SAUD ARAMCO RESERVES THE RIGH TO COLLECT REPRESENTATIV 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 CERTIFICAT 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. 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)
20	Drilling & Chemicals	1001062664	ADDITIVE DRILLING FLUID, FREE FLOWING PO	ULTRA LOW FLUID INVASION ADDITIVE 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. EAC SACK SHALL CONTAIN A SPECIFIED NET MASS SAUDI ARAMCO RESERVES THE RIGH TO COLLECT REPRESENTATIV 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.
21	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-DENSITY BRINE BLENDS WITH DENSITIES UP TO 143 PCF (19.1 LB/GAL). APPEARANC WHITE FREE FLOWING POWDER CRYSTALLINE OR GRANULAR, NO LUMPS SATURATED BRIND SOLUTION. CLEAR COLORES 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 PP: 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 CERTIFICAT 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 MATERIAL 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)
22	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, ENVIRONMENTAL FRIENDLY AND HELPS PREVE BIT BALLING AND DIFFERENTIAL STICKING. T PRODUCT IS COMPATIBLE WI 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.
23	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 DR, PR 2 (APPENDIX F), TR U API-6A, NACE MR0175 45-SAMSS-005, TO BE API MONOGRAMMED
24	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
25	Drilling & Chemicals	6000004033	NIPPLE: LANDING	NIPPLE LANDING; ALL SIZES AND PROFILES (X, XN, R, RN AND RPT)
26	Drilling & Chemicals	6000004087	VALVE: SUB-SURFACE SAFETY	VALVE; SUB-SURFACE SAFETY TYPE, SIZE ANY, API 1-14A, NACE MR-01-75/ ISO 15151, API MONOGRAMMED, API MONOGRAMMED
27	Drilling & Chemicals	6000004305	ELECTRICAL SUBMERSIBLE PUMP SYSTEM	PUMP SUBMERSIBLE; ELECTRIC SUBMERSIBLE PUMP; PUMP/MOTOR ASSEMBLY, PUMP 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 SUB, POD, SHROUD, USE REPLACEMENT 9COM 6000002370.
28	Drilling & Chemicals	6000016111	DRAG REDUCING AGENT (DRA)	CHEMICAL; ANY, SAEP-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
29	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
30	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, AIEC C56 OR C58
31	Electrical	6000000903	SWITCH; DISCONNECT; HIGH VOLTAGE;	SWITCH DISCONNECT; HIGH VOLTAGE, ANY ACTION, ELECTRICAL TYPE, 30-TMSS-01
32	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
33	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
34	Electrical	6000000951	BATTERY: LEAD ACID; STATIONARY; FLOODED	BATTERY LEAD ACID STATIONARY; FLOODED ELECTROLYTE TYPE, 2-6 VDC, 17-SAMSS-511
35	Electrical	6000000996	MOTOR: INDUCTION, 500 HP AND ABOVE, HOR	MOTOR INDUCTION; 500 HP AND ABOVE POWER, 4000 V AND ABOVE, 3 PHASE PHASE, TEFC/TEAAC/CACA ENCLOSUR, HORIZONTAL MTG, 17-SAMSS-502, FORM-WOUND
36	Electrical	6000001012	UPS SYS ABOVE 10 TO 200KVA FOR PLANTS	POWER SUPPLY UNINTERRUPTIBLE; ABOVE 10 KVA UP TO 200 KVA POWER, 17-SAMSS-516, SAES-P-103, INDUSTRIAL PLANTS PRODUCT RANGE
37	Electrical	6000015510	ANODE: GALVANIC, HIGH TEMPERATURE ZINC, CP	ANODE GALVANIC; HIGH TEMPERATURE ZINC, 17-SAMSS-006, CATHODIC PROTECTION
38	Electrical	6000017041	SWITCHGEAR; SF6, INDOOR 13.8 & 34.5 KV	SWITCHGEAR; SF6 GAS INSULATED TYPE, 13.8 AND 34.5KV, ANY BIL, 50MS-09.5-P-116, SF6 GAS INSULATED METAL CLAD 13.8 AND 34.5KV SWITCHGEARS, MAXIMUM RATING IS 2500A
39	Gen Sup & Bldg. Mat.	6000000390	CHAIN; LOAD RATED; GRADE 80 OR 100	CHAIN LOAD RATED; ANY TRADE SJ, ANY LOAD, M A391, M A973, CHAIN 80 OR 100 FOR SLINGS LIFTING ASSEMBLIES EXCLUDING POWER ANCHOR CHAIN DE D RATED HORE NSMISSION AND
40	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 9COM5 6000000577, 6000000580 OR 6000000573
41	Heat Transfer Equip	6000002340	BLOWER; CENTRIFUGAL	BLOWER; CENTRIFUGAL TYPE, ANY, 31-SAMSS-001 CHAPTER 2 OR 3
42	Heat Transfer Equip	6000002433	HEAT EXCHANGER; AIR COOLED; 32-SAMSS-11;	HEAT EXCHANGER AIR COOLED; ANY, ANY TYPE, ANY INLT/OTL, 32-SAMSS-011, NOTICE TO REQUISITIONER: THIS 9COM REQUIRES REQUISITION TEMPLATE FOR CREATING MATERIAL PO TEXT ACCESS TEMPLATE VIA https://sharek.aramco.com.5 A ORGS/30003143/30012601/3 0 014160/DOCUMENT/PR/RT_TREE .HTM REPLACE THIS MESSAGE WITH YOUR MATERIAL PO TEXT
43	Heat Transfer Equip	6000002487	BUNDLE; TUBE; 32-SAMSS-007;	BUNDLE TUBE; ANY TYPE, 32-SAMSS-007
44	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
45	Heat Transfer Equip	6000002529	HEAT EXCHANGER; SHELL & TUBE; ALL MATL O	HEAT EXCHANGER SHELL & TUBE; ANY TUBE DIA, ANY INLT/OTL, ANY INLT/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
46	Heat Transfer Equip	6000011229	BURNER; HIGH INTENSITY, FOR SULFUR	BURNER; HIGH INTENSITY TYPE, HIGH INTENSITY, FOR SULFUR RECOVER UNIT REACTION FURNACE
47	Instrumentation	6000000208	FITTING; TUBING; 316 SS OR BETTER	FITTING; COMPRESSION TYPE, 316 STAINLESS STEEL, 316 STAINLESS STEEL OR BETTER
48	Instrumentation	6000000221	TUBING; INSTRUMENTATION; METALLIC	TUBING; INSTRUMENTATION TYPE, STAINLESS STEEL OR NICKEL ALLOYS, ASTM A269, WITH SIZE 3/4 INCH (18 MM) OR SMALLER.
49	Instrumentation	6000002549	Non-Reclosing Pressure Relief Devices	Non-Reclosing Pressure Relief Devices
50	Instrumentation	6000002689	CALIBRATION GAS CYLINDER FOR GAS MONITOR	CYLINDER, CALIBRATION GAS TYPE, SIZE ANY, ANY FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY
51	Instrumentation	6000002738	FLOWMETER; ULTRASONIC;	FLOWMETER; ULTRASONIC TYPE, 34-SAMSS-010, SPOOL OR IN-LINE TYPE
52	Instrumentation	6000002782	MONITOR; GAS; COMBUSTIBLE;	MONITOR GAS; COMBUSTIBLE ANY RANGE, 34-SAMSS-514
53	Instrumentation	6000002792	Orifice/Assembly-Plate; Flange; Sealing	ORIFICE; ANY TYPE, ANY ASSEMBLY: PLATE, FLANGE, SEALING RING
54	Instrumentation	6000002901	ACTUATOR; VALVE; ELECTRIC; ACTUATOR: FOR	ACTUATOR VALVE ELECTRIC; SIZE ANY, ANY ACTION, 34-SAMSS-716, ACTUATOR: FOR OPERATING VALVE ELECTRIC MOTOR
55	Instrumentation	6000002914	ANALYZER; GAS CHROMATOGRAPH; Sheltered	ANALYZER; GAS CHROMATOGRAPH TYPE, ANY RANGE, 34-SAMSS-510, PROCESS GAS OR LIQUID
56	Instrumentation	6000002917	FLOWMETER; MULTIPHASE;	FLOWMETER; MPFM FOR OIL FIELD APPLICATION TYPE, 34-SAMSS-001, FOR OIL FLOW RATE MEASUREMENT
57	Instrumentation	6000007390	GUIDED WAVE RADAR LEVEL TRANSMITTERS	TRANSMITTER LIQUID LEVEL; GUIDED WAVE RADAR (GWR) TYPE, GUIDED WAVE RADAR (GWR) LEVEL TRANSMITTERS
58	Instrumentation	6000009906	CUSTODY PRESET CONT, TRUCK LOAD&UNLOAD	COMPUTER FLOW; CUSTODY PRESET CONTROLLER TYPE, 34-SAMSS-847, FOR TRUCK LOADING AND UNLOADING SYSTEMS
59	Instrumentation	6000009908	Custody Tank Gauge, Radar	GAUGE TANK LEVEL; ANY TYPE, ANY RANGE, 34-SAMSS-321, CUSTODY TANK RADAR GAUGE, CUSTODY TRANSFER TANK LEVEL GAUING
60	Instrumentation	6000010781	FOUNDATION FIELDBUS (FF) BLOCKS	BLOCK; FOUNDATION FIELDBUS (FF) WIRING TYPE, INCLUDING POWER SUPPLIES, FOR USE WITH FOUNDATION FIEL-BUS INSTRUMENTS ONLY
61	Instrumentation	6000014893	FIBER OPTIC SENSING PLDS	DETECTOR LEAK; FIBER OPTIC TYPE, FOR PIPELINE, SAES-2-003, 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 (PLDS) APPLICATIONS.
62	Nonmetallic	6000000037	PIPE & FITTINGS; NONMETALLIC, SUBSEA	PIPE METALLIC; ANY NP5, ANY PE, PEX, PA, PVDF, PEKK, FLEXIBLE PIPE, ER, INTERMEDIATE LAYERS AND ER SHEATHING STRUCTURE, API 17J, APPLICATIONS: ONSHORE / OFFSHORE WATER AND HYDROCARBON APPLICATIONS, REINFORCEMENT: STEEL AND FIBER
63	Nonmetallic	6000000631	GRATING; FIBERGLASS; STRUCTURAL NON FIRE	GRATING FIBERGLASS; ANY WID, ANY LG, ANY THK, FOR STRUCTURAL NON-FIRE INTEGR, 12-SAMSS-023, ANS/ACMA/FGMC FRP COMPOSITES
64	Nonmetallic	6000000774	TRAY; CABLE, FIBERGLASS	TRAY; CABLE TYPE, FIBERGLASS, NEMA PG-1, 3-P-104 SEC. 9

Sr	COMMODITY	9COM	SHORT DESCRIPTION	LONG DESCRIPTION
65	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
66	Nonmetallic	6000007813	GRATING; OFFSHORE; FIRE RETARDANT;	GRATING; FIRE RETARDANT TYPE,SIZE ANY,PULTRUDED PHENOLIC RESIN,12-SAMSS-023,NONMETALLIC FIBER-REINFORCED COMPOSITE PLATFORMS. SHORE
67	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
68	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.
69	Nonmetallic	6000017130	FIRE-RETARDANT RTR	PIPE NON-METALLIC; ANY NPS,ANY,01-SAMSS-034, SAES-8-017, 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.
70	Not assigned	6000002461	SKID; NITROGEN GENERATION; MEMBRANE TYPE	SKID; MEMBRANE TYPE,32-SAMSS-038,NITROGEN GENERATION
71	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
72	Pipe	6000000062	TUBING; CS; BOILER OR HEAT EXCHANGER	TUBING METALLIC; ANY OD,CARBON STEEL,ASTM,BOILER OR HEAT EXCHANGER, ASTM
73	Pipe	6000000063	TUBING; LOW-ALLOY STEEL; ASTM	TUBING METALLIC; ANY OD,STEEL-ALLOY,ASTM GRADES TP 1, 11, 22, 5 AND 9
74	Pipe	6000000067	TUBING; METALLIC; NICKEL-ALLOY;	TUBING METALLIC; ANY OD,NICKEL-ALLOY,01-SAMSS-047
75	Pipe	6000014200	PIPE: COPPER-NICKEL, EEMUA, ASTM	PIPE; COPPER NICKEL (CUNI) PIPE OR T TYPE,COPPER-NICKEL
76	Pipe Fittings	6000000076	BOSS; PIPE; WELDING; ANY METAL;	BOSS WELDING; ANY OUTLET,ANY ANY METAL,ANY METAL
77	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
78	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)
79	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 TEMPERATURE STEEL, STAINLESS STEEL, AND NICKEL ALLOY.
80	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
81	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,ANSI B1.20.1,ANSI B16.11
82	Pipe Fittings	6000000089	BRANCH; PIPE; O-LET, ANY STEEL	BRANCH PIPE; ELBOW-LT, WELDOLET, THREDELET, 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
83	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
84	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
85	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).
86	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
87	Pipe Fittings	6000000098	FLANGE; PIPE; ASSEMBLY; SWIWE RING ; CS	FLANGE PIPE; ANY TYPE,ANY NPS,ANY,CAMLOCK
88	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
89	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
90	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
91	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
92	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
93	Pipe Fittings	6000000123	NIPPLE; PIPE; ANY METAL	NIPPLE PIPE; SIZE,IN,IN,LG,ASTM,BARE FINISH,ASTM,ANSI,SEAMLESS
94	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
95	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)
96	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
97	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)
98	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
99	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,ANSI B16.11
100	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 (BAR JOINT) FLANGES PER EEMUA 234. OR OTHER COPPER ALLOYS AS PER ASME 16.5, PIPE FLANGES AND FLANGED FITTINGS, UTILITY, NON-HYDROCARBON.
101	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
102	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 (QCCD) CONSTRUCTION SPECIFICATION FOR MARINE LOADING ARMS 1999. OCIMF DESIGN & 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.
103	Pipe Fittings	6000014202	FITTING; PIPE; CUNI;ALL TYPES;EEMUA 234	PUMP CENTRIFUGAL; SELF-PRIMING TYPE, SIZE ANY,ANY SINGLE STAGE(S),MFR STANDARD
104	Pumps	6000000242	PUMP; CENTRIFUGAL; SELF-PRIMING; MFR STD	PUMP RECIPROCATING; POSITIVE DISPLACEMENT, CONTROLLED VOLUME TYPE,ANY 31-SAMSS-009
105	Pumps	6000000261	PUMP; RECIPROCATING; 31-SAMSS-009	PUMP CENTRIFUGAL; MAGNETIC DRIVE TYPE, SIZE ANY,ANY SINGLE STAGE(S),HORIZONTAL MTG,ASME B73.3M / ISO15783
106	Pumps	6000000266	PUMP; CENTRIFUG; MAG-DRIVE; HORIZ; ASME	PUMP RECIPROCATING; PISTON, PLUNGER TYPE,ANY API 674
107	Pumps	6000000268	PUMP; RECIPROCATING; 31-SAMSS-674	PUMP CENTRIFUGAL; API 685 SEALESS TYPE,SIZE ANY,ANY SINGLE STAGE(S) 31-SAMSS-685
108	Pumps	6000015670	PUMP; CENTRIFUGAL; API 685 SEALESS	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.
109	Safety & Security Equip	6000001310	HYDRANT; FIRE; CASTED; 6 IN INLET	MONITOR; FIREFIGHTING, HYDRANT-MOUNTED MANUALLY OPERATED TYPE,ANY RANGE, MEETING 21-SAMSS-16, INDUSTRIAL MONITOR SYSTEM, WILL BE INSTALLED ON# 9COM 6000001310
110	Safety & Security Equip	6000001314	MONITOR; FIRE FIGHTING; HYDRANT-MOUNTED	FENCE; CRASH-RATED BARRIER TYPE,ASTM F2656, SAES-0-202,CRASH-RATED BARRIER FENCE FOR VEHICLES FORCED ENTRY PREVENTION. STATIC TYPE. TESTED AND CERTIFIED WITH THE REQUIRED DOCUMENTATION.
111	Safety & Security Equip	6000018480	FENCE; CRASH RATED 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.
112	Safety & Security Equip	6000018510	DEVICE: SECURITY MARINE FLOATING BARRIER	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.
113	Safety & Security Equip	6000018511	DEVICE: LAND SECURITY SURVEILLANCE RADAR	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.
114	Safety & Security Equip	6000018520	FENCE; COMBINED SECURITY FENCE	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.
115	Safety & Security Equip	6000018522	BARRIER; DEPLOYABLE CRASH RATED	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.
116	Safety & Security Equip	6000018524	CAMERA, LONG RANGE OPTICAL AND THERMAL	TURBINE STEAM; ANY,ANY STAGE(S),32-SAMSS-009
117	Turbines	6000002496	TURBINE; STEAM; GENERAL PURPOSE	TURBINE STEAM; ANY,ANY STAGE(S),32-SAMSS-010, API 612,SPECIAL PURPOSE, FOR MECHANICAL DRIVE APPLICATION
118	Turbines	6000002497	TURBINE; STEAM; SPECIAL PURPOSE	TURBINE STEAM; ANY,ANY STAGE(S),32-SAMSS-001, API 612,SPECIAL PURPOSE, FOR GENERATOR DRIVES
119	Turbines	6000013960	TURBINE STEAM; SPECIAL PURPOSE FOR GENER	TURBINE COMBUSTION GAS; AERO-DERIVATIVE & LIGHT INDUSTRIAL TYPE,ANY,UP TO 30,000 HP,32-SAMSS-100, S-K-502
120	Turbines	6000002490	TURBINE;COMB. GAS; AERO; UP TO 30,000 HP	TURBINE COMBUSTION GAS; AERO-DERIVATIVE TYPE,ANY,30,000 HP AND ABOVE,32-SAMSS-100,S-K-502
121	Turbines	6000002491	TURBINE;COMB. GAS;AERO;30,000 HP & ABOVE	TURBINE COMBUSTION GAS; HEAVY INDUSTRIAL TYPE,ANY,UP TO 30,000 HP,32-SAMSS-100, S-K-502
122	Turbines	6000002493	TURBINE; COMB. GAS, IND; UP TO 30,000 HP	TURBINE COMBUSTION GAS; HEAVY INDUSTRIAL TYPE,ANY,30,000 HP & ABOVE,32-SAMSS-100, S-K-502
123	Turbines	6000002494	TURBINE; COMB. GAS, IND;30,000 HP & ABOVE	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
124	Valves	6000000248	VALVE; BALL; SPLIT BODY; TRUNNION; API6A	VALVE CHECK; SIZE 2 INCH AND UP,ANSI 150 AND UP SUPPLY,STEEL BODY,DUAL PLATE,WAFER END CONN,04-SAMSS-035,04-SAMSS-048 API 594
125	Valves	6000000268	VALVE;CHECK;2 IN&UP;ANSI 150;DUAL PLATE	VALVE CHECK; SIZE 1/2 THRU 2 INCH,STEEL BODY,ANY, THREADED, SOCKETWELD, FLANGED OR BUTTWELD END CONN,04-SAMSS-035,04-SAMSS-048, NON-SLAM
126	Valves	6000000269	VALVE; CHECK; STEEL; NOZZLE;	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
127	Valves	6000000270	VALVE; CHECK; 1/2 THRU 2 INCH; STEEL; TH	VALVE BUTTERFLY; HIGH PERFORMANCE, TRIPLE ECCENTRIC DESIGN TYPE, SIZE,ANY,04-SAMSS-047,04-SAMSS-035 API 609 CATEGORY B,04-SAMSS-048 04-SAMSS-048 API 609 CATEGO,METAL SEATED, ZERO LEAKAGE WITH OR WITHOUT ACTUATOR BETTERFLY VALVE METAL SEATED, ZERO LEAKAGE. ANY SIZE AND ANY RATING FLANGED OR BETTWELD ENDS API 609 CATEGORY B
128	Valves	6000000272	VALVE; BUTTERFLY; HIGH PERFORMANCE	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
129	Valves	6000000275	VALVE; CHECK;SWING;UP TO 12 IN; CI OR DI	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
130	Valves	6000000289	VALVE; GATE; THRU CONDUIT; METAL SEATED;	VALVE GATE; SIZE UP TO NPS 12,ANY RATING, ALLENDIS SUPPLY,NON-FERROUS, (BRONZE/ALUMINUM-BRONZE BODY,04-SAMSS-035,04-SAMSS-048 04-SAMSS-001,WITH OR WITHOUT ACTUATOR
131	Valves	6000000292	VALVE; GATE; UP TO 12 INCH; NON-FERROUS;	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
132	Valves	6000000294	VALVE; GATE; WEDGE; 26 INCH AND UP; FLAN	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
133	Valves	6000000295	VALVE; GATE; WEDGE; UP TO 4 INCH; THREAD	VALVE GATE; SIZE UP TO NPS 12,ANY RATING, ALLENDIS SUPPLY,CAST OR DUCTILE IRON BODY,04-SAMSS-035,04-SAMSS-048 AWWA,WITH OR WITHOUT ACTUATOR
134	Valves	6000000296	VALVE; GATE; WEDGE OR DBL DISC; UP TO 12	VALVE GATE; SIZE NPS 14 AND ABOVE,ANY RATING, ALLENDIS SUPPLY,CAST OR DUCTILE IRON BODY,04-SAMSS-035,AWWA,WITH OR WITHOUT ACTUATOR
135	Valves	6000000297	VALVE; GATE; WEDGE OR DOUBLE DISC; 14 IN	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
136	Valves	6000000302	VALVE; GLOBE; CAST OR DUCTILE IRON;	VALVE; INSTRUMENT TYPE,SIZE ANY SIZE,ANY PRESSURE RATING SUPPLY,ANY MATERIAL BODY,04-SAMSS-035,04-SAMSS-048
137	Valves	6000000304	VALVE; INSTRUMENT; ANY MATERIALS	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
138	Valves	6000000307	VALVE; PLUG; EXPANDING;04-SAMSS-041;	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.
139	Valves	6000000308	VALVE; PLUG; LUBRICATED	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
140	Valves	6000000315	VALVE; CHOKE; CAGE SINGLE STAGE, 10KSI	VALVE CHECK; SIZE ANY,2000-5000 SUPPLY SUPPLY,STEEL BODY,SWING,FLANGED, BUTTWELD OR HUBBED END CONN,STEEL BODY,API 602,04-SAMSS-055, API 6A
141	Valves	6000000323	VALVE; CHECK; API 6A 2000-5000; STEEL; S	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
142	Valves	6000012420	VALVE; BALL;NPS 26&UP ASME CLASS 150&UP	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
143	Valves	6000013742	VALVE; BALL; DOUBLE ISOLATION TWIN	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
144	Valves	6000015607	VALVE; BALL;MS,2-1/16 IN & UP,2K-5K PSI,	