

**2026 Material Sourcing List (July, 2026)**  
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S/N	Commodity Group	Commodity	Material	Material Description	Material Long Description
1	Communities & Offices	Gen Sup & Bldg. Mat.	6000000390	CHAIN; LOAD RATED; GRADE 80 OR 100	CHAIN LOAD RATED; ANY TRADE SI, ANY LOAD, M A391, M A973, CHAIN 80 OR 100 FOR SLINGS LIFTING ASSEMBLIES EXCLUDING POWER ANCHOR CHAIN; DE D RATED SHORE RESMISSION AND GRATING; FIRE RETARDANT TYPE SIZE ANY, PULTRUDED PHENOLIC RESIN, 27-SAMSS-023, NONMETALLIC FIBER-REINFORCED COMPOSITE PLATFORMS. SHORE
2	Communities & Offices	Gen Sup & Bldg. Mat.	6000007813	GRATING; OFFSHORE; FIRE RETARDANT;	TOWER COOLING; WATER TYPE, 27-SAMSS-003, ASHRAE 90.1
3	Communities & Offices	Air Conditioning	6000002404	TOWER; COOLING; WATER;	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD
4	Communities & Offices	Air Conditioning	6000001823	AIR CONDITIONING UNIT; PACKAGED UNIT TRA	CHILLER WATER; PACKAGED WATER COOLED FOR UTILITY APPLICATIONS TYPE, ANY NOM, CENTRIFUGAL COMPRESS, R-134A, 27-SAMSS-001, AHRI-550/590 ASHRAE 90.1
5	Communities & Offices	Air Conditioning	6000001828	CHILLER; WATER; PACKAGED WATER COOLED FO	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD
6	Communities & Offices	Air Conditioning	6000001862	A/C UNIT; SPLIT; DIRECT EXP. 5.5 TO 63 TONS	CHILLER WATER; PACKAGED WATER COOLED FOR UTILITY APPLICATIONS TYPE, ANY NOM, CENTRIFUGAL COMPRESS, R-134A, 27-SAMSS-001, AHRI-550/590 ASHRAE 90.1
7	Communities & Offices	Air Conditioning	6000013331	FILTER, AIR, HEPA	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD
8	Communities & Offices	Air Conditioning	6000013333	AIR CONDITIONING UNIT; SPLIT	CHILLER WATER; PACKAGED WATER COOLED FOR UTILITY APPLICATIONS TYPE, ANY NOM, CENTRIFUGAL COMPRESS, R-134A, 27-SAMSS-001, AHRI-550/590 ASHRAE 90.1
9	Drilling & Chemicals	Drilling Downhole	6000004041	HANGER; LINER; FOR GAS WELLS	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD
10	Drilling & Chemicals	Drilling Downhole	6000004047	PACKER; MECHANICAL, SWELLABLE, ISOLATION	CHILLER WATER; PACKAGED WATER COOLED FOR UTILITY APPLICATIONS TYPE, ANY NOM, CENTRIFUGAL COMPRESS, R-134A, 27-SAMSS-001, AHRI-550/590 ASHRAE 90.1
11	Drilling & Chemicals	Drilling Downhole	6000004063	PACKER; PRODUCTION; NON-KHF	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD
12	Drilling & Chemicals	Drilling Downhole	6000004065	PACKER; PRODUCTION; KHF	CHILLER WATER; PACKAGED WATER COOLED FOR UTILITY APPLICATIONS TYPE, ANY NOM, CENTRIFUGAL COMPRESS, R-134A, 27-SAMSS-001, AHRI-550/590 ASHRAE 90.1
13	Drilling & Chemicals	Drilling Downhole	6000010106	CHOKE ASSY; DRUG; HYD; 10M-15M	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD
14	Drilling & Chemicals	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 H <sub>2</sub> S 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 H <sub>2</sub> S 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 H <sub>2</sub> S CONTAMINATIONS EXIST IN ADDITION, LIME IS USE FOR MAINTAINING THE ALKALINITY WHEN 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.
15	Drilling & Chemicals	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) WITHOU LIBERATION OF AMMONIA GA 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 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, SAP NUMBER, EXPIRATION DATE, 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.
16	Drilling & Chemicals	Chemicals	1000021605	PAC-R POLYANIONIC CELLULOSE (REGULAR)	PAC-R POLYANIONIC CELLULOSE (REGULAR) ADDITIVE DRILLING FLUID; DRY, FREE-FLOWING GRANULATED POWDER. FORM, DRY, FREE-FLOWING GRANULATED POWDER, PURE WATER-SOLUBLE POLYMER, SALT-FREE, AND SHALL NOT CONTAIN ANY OTHER POLYSACCHARIDES SUCH AS STARCH, GUAR, OR ANY OTHER POLYMERS OR THEIR DERIVATIVES. THE PRODUCT DISPERSES RAPIDLY IN FRESH WATER, SEA WATER AND SALT SATURATED DRILLING FLUIDS TO PROVIDE FILTRATION CONTROL AND FORMS A THIN, RESILIENT FILTER CAKE, INHIBITS SHALE, AND STABILIZE RHEOLOGY. IT IS NON-TOXIC, ARMLESS TO PERSONNEL AND THERMALLY STABLE TO ≥275°F (135°C). PAC-R QUALITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. FOR USED AS A FILTRATE REDUCER AND SUPPLEMENTARY VISCOSIFIER TO FORM A THIN, RESILIENT FILTER CAKE. NACMC, 25 KG (55.1 LBS.) MULTI-WALL PAPER BAG, VALVE/SPOUT TYPE SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 50 LB. NATURAL KRAFT PAPER (INTERIOR PLY). 2ND PLY 50 LB. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLY-ETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 50 LB. NATURAL KRAFT PAPER. 5TH PLY 60 LB. NATURAL KRAFT PAPER. WET STRENGTH (EXTERIOR PLY) SHIPMENTS SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. API SPECIFICATION 13A-18TH EDITION, AUGUST 2016. CHEMICAL AND PHYSICAL SPECIFICATIONS WHITE OR TAN FREE-FLOWING GRANULAR POWDER. MOISTURE CONTENT: 10% MAXIMUM SODIUM CHLORIDE CONTENT (1% SOLUTION IN DI WATER) : 0.02% WT MAXIMUM. STARCH OR STARCH DERIVATIVES: NIL PURE NACMC (ON A DRY-WEIGHT BASIS). PARTICLE SIZE: 100% WT. PASS THROUGH 10 US MESH SCREEN 15% WT. MAXIMUM RETAINED ON TOP OF 20 US MESH SCREEN MEDIAN PARTICLES "D50": 500 - 800 MICRONS DEGREE OF SUBSTITUTION: D.S.: ≥ 0.9 PH: 7 - 8 (ONE GRAM IN 350 CC DEIONIZED WATER) APPARENT VISCOSITY (1%WT IN DEIONIZED WATER): 50 CP MINIMUM API FILTRATE VOLUME: 23 ML/ 30 MINUTE MAXIMUM (API 13A 18TH EDITION SEC. 2.8). 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 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, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).
17	Drilling & Chemicals	Chemicals	1000022138	LOW TOXICITY BASED OIL	LOW TOXICITY BASED OIL ADDITIVE DRILLING FLUID; CLEAR LIQUID FORM, LOW TOXICITY, ODORLESS BASE OIL WITH VERY LOW AROMATIC CONTENT, FOR OIL-BASED DRILLING FLUIDS, LOW AROMATIC BASE OIL, BULK SAES-A 103 PROTECTION OF THE MARINE ENVIRONMENT FROM 8 DECEMBER 2016, EPA 1654, ASTM D5292). LOW TOXICITY BASE OIL: A LOW AROMATIC CLEAR ODORLESS LIQUID USED TO FORMULATE LOW TOXICITY OIL-BASED DRILLING AND COMPLETION FLUIDS. THIS BASE OIL MUST BE CHEMICALLY COMPATIBLE WI THE WATER-EMULSIFYING AGENTS, ORGANOPHILIC CLAYS, ORGANOPHILIC LIGNITE AND CROSS-LINKED POLYMERS FILTRATION CONTROL AGENTS TO PRODUC A STABLE INVERT EMULSION AND ALL OIL SYSTEMS WITH LOW FILTRATION RATES. CHEMICAL AND PHYSICAL SPECIFICATIONS: ODORLESS CLEAR LIQUID, FREE FROM SUSPENDED ATTER SPECIFI GRAVITY @ 59°F (15°C): 0.70-0.79 (ASTM D1298) LASH POINT: >185°F (85° (ASTM D 93) ANILINE POIN >167°F (75°C) (ASTM D 61 TOTAL AROMATICS CONTENT: 0.5% WT. (ASTM D 5292) POLYCYCLIC AROMATICS HYDROCARBONS CONTENT: < 0.1% WT BUT > 0.001% WT (EPA 1654 REV. A) OLEFIN CONTENT: NIL PPM BENZENE CONTENT: NIL PPM POLYNUCLEAR AROMATIC: NIL PPM MYSID SHRIMP NINETY-SIX HOUR BIOASSAY TEST LC50: > 100,000 PPM 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 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)
18	Drilling & Chemicals	Chemicals	1000179350	CATALYST; ACTIVATED ALUMINA, CLAUS	CATALYST; ACTIVATED ALUMINA TYPE, FOR CLAUS CATALYST, 3-6 MM, FOR SULFUR REACTOR, SOLID SPHERE FORM, 800-1000 KG (1763-2204 LB) SLING BAG, DENSITY LESS THAN OR EGU TO 705 K G/CU DENSITY LE THAN OR EQUAL TO 705 KG/ M (44LBS/CU FT) REQUIRES SAUDI ARAMCO HAZCOM LABEL IN MM 1000644267 (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)

S/N	Commodity Group	Commodity	Material	Material Description	Material Long Description
19	Drilling & Chemicals	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-(2AMINOETHOXY) ETHANOL,DIGLYCOLAMINE "DGA",MISCIBLE WITH WATER & ALCOHOLS, 1.0572 RELATIVE DENSITY AT 20/20 DEG C
20	Drilling & Chemicals	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)
21	Drilling & Chemicals	Chemicals	1000811877	MICRO-WASH FORMIC ACID	MICRO-WASH FORMIC ACID-BAKER HUGHES ADDITIVE DRILLING FLUID; CLEAR, COLORLESS LIQUID FORM,FORMIC ACID ADDITIVE,FOR USED FOR FORMULATING MICRO-WASH,FORMIC ACID >90%,55 GAL. (208 LITER) DRUM SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL,MICRO-WASH FORMIC ACID-BAKER HUGHES: CLEAR LIQUID FORMIC ACID ADDITIVE FOR FORMULATING MICRO-WASH. [BAKER HUGHES MICRO-WASH ACID SYSTEM CONSISTS OF: PRIME-743 (SAP #1000811425), PRIME-760 (SAP #1000811426), PRIME-770 (SAP #1000811427), OHR-7 (SAP #1000811421), OHR-A (SAP #1000811422), OHR-7 (SAP #1000811423), OHR-7 (SAP #1000811424), GLACI ACETIC ACID (SAP #1000814796), AND FORMIC ACID (SAP #1000811877)]. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: CLEAR COLORLESS LIQUID FORMIC ACID: >90%. 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.
22	Drilling & Chemicals	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 @ 511.5 (NON-NEWTONIAN),(AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
23	Drilling & Chemicals	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 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 WEIGHT THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET 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: NSOLUBLE,PH (GG IN 50 ml WATER): 7 – 10.5, SPECIFIC GRAVITY @ 68 DEG (20 DEG C): 4.8, MINIM BULK DENSITY: 84 LB/FT3 (950-1050 G/M3), SURFACE AREA: 1 – 5 M2/G MICROMAX 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 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	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 POLYMER SIZE: 1-1/4 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 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: 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 ESISTANT, 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	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-DENSIT BRINE BLENDS WITH DENSITIES UP TO 143 PCF (19.1 LB/GAL), APPEARANCE WHITE FREE FLOWING POWDE CRYSTALLINE OR GRANULAR, NO LUMPS SATURATED BRIND SOLUTION: CLEAR COLORLES 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 WITH 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).
26	Drilling & Chemicals	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 58F (20C): 0.95 - 1.05 FLASH POINT (P/MCC): GREATER THAN 212 (100C) IT WILL NOT GREAS OR PHASE OUT. 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. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. LABEL: PRODUCTNAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAM AND CONTACTINFORMATION. 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.

S/N	Commodity Group	Commodity	Material	Material Description	Material Long Description
27	Drilling & Chemicals	Chemicals	1001602845	Acetic Acid	CHEMICAL: ACETIC ACID,CLEAR, COLORLESS LIQUID FORM,> 96% ACETIC ACID, X ACETIC ACID IS AN ORGANIC WEAK AID USED TO TREAT WELLBORE DAMAGE CAUSED BY OBM CONTAINING ACID SOLUBLE MATERIAL, COMMONLY CALCIUM CARBONATE, WHICH IS USED IN DRILL-IN FLUIDS AS A BRIDGING / WEIGHTING MATERIAL. DEPENDING UPON BOTTOM HOLE CONDITIONS. COMPOSITION > 96% ACETIC ACID CONTAINER 275 GALLON IBC CONTAINER (NET VOLUME) STANDARDS CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: CLEAR COLORLESS ODOR: STRONG PUNGENT VINEGAR ACETIC ACID: >96%. FLASH POINT: >102 °F (38.9 °C) CATALOG INFO SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. PALLET PLASTIC TYPE SIZE (W X L X H) 120 X 15 CM 4- WAY ENTRY RACKABLE/STACKABLE ANY-SLIP 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. 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 SHEET MICAL AND MSDS. BLE-DECK VY-DUTY
28	Drilling & Chemicals	Chemicals	6000001766	CATALYST; PRECIOUS METAL;	CATALYST; PRECIOUS METAL TYPE, FOR PETROLEUM REFINING, SAES-A207
29	Drilling & Chemicals	Chemicals	6000001767	CATALYST SUPPORT; CERAMIC BALL; INERT; S	BALL; CATALYST SUPPORT TYPE, CERAMIC, CATALYST SUPPORT BALL SHAPE. AMIC RT ERICAL
30	Drilling & Chemicals	Chemicals	6000003961	Alkalinity Control (ECO & environmentally friendly alkalinity modifier to replace caustic soda)	CHEMICAL: ANY MATERIALS USED TO CONTROL ALKALINITY IN WATER BASED MUD, OIL BASED MUD AND BRINE. AND TO TREAT WATER BASED MUD CONTAMINATION
31	Drilling & Chemicals	Chemicals	6000016111	DRAG REDUCING AGENT (DRA)	CHEMICAL: ANY, SAEP-S01, 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
32	Drilling & Chemicals	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.
33	Drilling & Chemicals	Chemicals	6000016483	MUD SYSTEM	ADMIXTURE DRILLING MUD; ANY, DRILLING FLUIDS SYSTEM OR PRODUCT USED AS WATER BASED MUD(WBM) OR OIL BASED MUD (OBM) OR FOR SPECIAL APPLICATION TO DRILL THE RESERVOIR OR NON-RESERVOIR HOLE SECTIONS. EXAMPLES NON-CONVENTIONAL LCM, HIGH OVER BALANCE MUD SYSTEM , SHALE INHIBITION MUD SYSTEM , RESERVOIR DRILL-IN FLUID(RDF), FILTER CAKE REMOVAL SYSTEM, HIGH PERFORMANCE WATER BASE MUD (HPWBM), HIGH PERFORMANCE OIL BASE MUD (HPOBM), SPACER CLEANING SYSTEM
34	Electrical	Electrical	6000000774	TRAY; CABLE, FIBERGLASS	TRAY; CABLE TYPE, FIBERGLASS, NEMA FG-1, S-P-104 SEC. 9
35	Electrical	Electrical	6000000882	TRANSFER SWITCH; AUTOMATIC, INDOOR, LV	SWITCH TRANSFER; 600V MAX, AUTOMATIC AND NON-AUTOMATIC ACTION, COMPLETELY ENCLOSED AND OPEN TRANSFER SWITCHES AND INTENDED FOR USE IN OTHER EQUIPMENT SUCH AS CONTROL GEAR AND SWITCHBOARD POSITION, AUTOMATIC TYPE, FOR INDOOR, 16-SAMSS-521, LOW VOLTAGE,
36	Electrical	Electrical	6000000899	Motor Controller; High Voltage, Outdoor	CONTROLLER MOTOR; HIGH VOLTAGE, OUTDOOR TYPE, ANY, 16-SAMSS-507
37	Electrical	Electrical	6000000903	SWITCH; DISCONNECT; HIGH VOLTAGE;	SWITCH DISCONNECT; HIGH VOLTAGE, ANY ACTION, ELECTRICAL
38	Electrical	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	Electrical	6000000951	BATTERY; LEAD ACID; STATIONARY; FLOODED	BATTERY LEAD ACID STATIONARY; FLOODED ELECTROLYTE TYPE, 2-6 VDC, 17-SAMSS-511
40	Electrical	Electrical	6000000965	SYNCHRONOUS GENERATORS	GENERATOR SYNCHRONOUS; ANY POWER, ANY, 3 PHASE, 60 HZ, INSUL CL F, PF 0.8, 17-SAMSS-510
41	Electrical	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
42	Electrical	Electrical	6000001014	CP, POWER SUPPLY; RECTIFIER; IMPRESSED CURR	RECTIFIER IMPRESSED CURRENT; HODIC PROTECTION SE CONTROL TYPE, ANY OUTPUT, 17-SAMSS-005
43	Electrical	Electrical	6000001040	ANODE GALVANIC; MAGNESIUM, WITHOUT LEAD, CP	ANODE GALVANIC; MAGNESIUM, 17-SAMSS-006, CATHODIC PROTECTION WITHOUT LEADS
44	Electrical	Electrical	6000001042	ANODE; GALVANIC; ZINC RIBBON, CP	ANODE GALVANIC; ZINC RIBBON, 17-SAMSS-006, CATHODIC PROTECTION
45	Electrical	Electrical	6000012080	BOX: JUNCTION, FOR U/G ANODE BED, CP	BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 20X70MM2 CONNECTN, 12-2 TERMINAL SCREW LUG CONECTN, FOR WEATHERPROOF (DIRECT BURIAL), NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER OPTIONAL FINISH, OPTIONAL THK, 17-SAMSS-008 JUNCTION BOX FOR CATHODIC PROTECTION, MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE
46	Electrical	Electrical	6000012716	SWITCHGEAR; SF6 GAS INSULATED, 115KV, 132KV	SWITCHGEAR; SF6 GAS TYPE, 115 KV, 132 KV INDOOR, ANY BIL, 32-TMSS-02, GAS INSULATED SWITCHGEAR
47	Electrical	Electrical	6000012717	SWITCHGEAR; SF6 GAS INSULATED, 230 KV,	SWITCHGEAR; GAS TYPE, 230 KV INDOOR, ANY BIL, 32-TMSS-02, GAS INSULATED SWITCHGEAR
48	Electrical	Electrical	6000012790	ANODE: GALVANIC, MAGNESIUM, CP	ANODE GALVANIC; MAGNESIUM, 17-SAMSS-006, CATHODIC PROTECTION LARGE SIZE CYLINDRICAL, FOR OFFSHORE APPLICATION
49	Electrical	Electrical	6000015923	BUS; ISOLATED PHASE BUS DUCT	BUS; SIZE ANY, ANY, 16-SAMSS-523, ISOLATED PHASE BUS DUCT
50	Electrical	Electrical	6000017041	SWITCHGEAR; SF6, INDOOR 13.8 & 34.5 kV	SWITCHGEAR; SF6 GAS INSULATED TYPE, 13.8 AND 34.5KV, ANY BIL, SDMS-09, S-P-116, SF6 GAS INSULATED METAL CLAD 13.8 AND 34.5KV SWITCHGEARS, MAXIMUM RATING IS 2500A
51	Electrical	Electrical	6000018540	DEVICE: HIGH RESISTANCE GROUNDING	DEVICE; GROUNDING TYPE, 16-SAMSS-516, FOR RESTRICTING THE SYSTEM GROUND FAULT CURRENT AT LV SYSTEMS TO APPROX. 5A AS WELL AS DETECT THE GROUND FAULT GENERAL LOCATION, MONITOR THE CONTINUITY OF THE NEUTRAL CONNECTION, MONITOR FOR NEUTRAL RESISTOR SHORT CIRCUIT, AND ALLOW SPECIFIC LOCATION OF THE FAULT BY PULSATION OF THE GROUND FAULT CURRENT.
52	Instrumentation & IT	Instrumentation	6000014891	NEGATIVE PRESSURE WAVE (ACOUSTIC) PLDS	DETECTOR LEAK; NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE, SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYSES THE RAREFACTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.
53	Instrumentation & IT	Instrumentation	6000000208	FITTING; TUBING; 316 SS OR BETTER	FITTING; COMPRESSION TYPE, 316 STAINLESS STEEL, 316 STAINLESS STEEL OR BETTER
54	Instrumentation & IT	Instrumentation	6000002655	ANALYZER; BOTTOM SEDIMENT AND WATER;	ANALYZER; BOTTOM SEDIMENT AND WATER TYPE, ANY RANGE, TO BE USED FOR LIQUID SERVICE APPLICATION ONLY NOT IN MULTI-PHASE SERVICE
55	Instrumentation & IT	Instrumentation	6000002663	ANALYZER; FURNACE/FLUE GAS;	ANALYZER; FURNACE/FLUE GAS TYPE, ANY RANGE,
56	Instrumentation & IT	Instrumentation	6000002666	ANALYZER; OXYGEN/EMISSION MONITOR	ANALYZER; OXYGEN/EMISSION MONITORS TYPE, ANY RANGE, 34-SAMSS-510
57	Instrumentation & IT	Instrumentation	6000002732	MONITOR; FLAME MONITORING SYSTEM	MONITOR; IGNITERS AND BURNERS USED E MONITORING SYSTEM D IN FIRED EQUIPMENT. TYPE, ANY RANGE, 34-SAMSS-617
58	Instrumentation & IT	Instrumentation	6000002738	FLOWMETER; ULTRASONIC;	FLOWMETER; ULTRASONIC TYPE, 34-SAMSS-010, POOL OR IN-LINE TYPE
59	Instrumentation & IT	Instrumentation	6000002782	MONITOR; GAS; COMBUSTIBLE;	MONITOR GAS; COMBUSTIBLE, ANY RANGE, 34-SAMSS-514
60	Instrumentation & IT	Instrumentation	6000002914	ANALYZER; GAS CHROMATOGRAPH; Sheltered	ANALYZER; GAS CHROMATOGRAPH TYPE, ANY RANGE, 34-SAMSS-510, PROCESS GAS OR LIQUID
61	Instrumentation & IT	Instrumentation	6000009906	CUSTODY PRESET CONTL, TRUCK LOAD&UNLOAD	COMPUTER FLOW; CUSTODY PRESET CONTROLLER TYPE, 34-SAMSS-847, FOR TRUCK LOADING AND UNLOADING SYSTEMS
62	Instrumentation & IT	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
63	Instrumentation & IT	Instrumentation	6000009910	CUSTODY WEIGH SCALE	SCALE WEIGH; CUSTODY TRANSFER TYPE, 34-SAMSS-180
64	Instrumentation & IT	Instrumentation	6000009911	CUSTODY METERING SYSTEM, LIQUID	SYSTEM; METERING; CUSTODY TRANSFER LIQUID TYPE, SAES-Y-103, 34-SAMSS-525 34-S, AB USING ULTRASONIC METER#AC USING CORIOLIS METER#BB METERING CONTROL SYSTEM#CC AUTOMATIC SAMPLING SYSTEM
65	Instrumentation & IT	Instrumentation	6000009914	CUSTODY METERING SYSTEM, GAS PIPELINE	SYSTEM; METERING; FOR GAS CUSTODY TRANSFER TYPE, SAES-Y-101, SABP-Y-456, AA USING ULTRASONIC METER#AB USING CORIOLIS METER#USING ORIFICE METER.#BB METERING CONTROL SYSTEM
66	Instrumentation & IT	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 & IT	Instrumentation	6000013921	ANALYZER, Proc Photometer/Spectrometer	ANALYZER; ANY RANGE, 34-SAMSS-510, PROCESS PHOTOMETERS AND SPECTROMETERS INCLUDING TUNABLE DIODE (EXTRACTIVE)
68	Instrumentation & IT	Instrumentation	6000014021	ANALYZER; PHYSICAL PROPERTY	ANALYZER; PHYSICAL PROPERTY TYPE, ANY RANGE, (EXAMPLE: BOILING POINT, FLASH POINT, POUR POINT, CFPF, RVP, COLOR, CLOUD POINT, FREEZE POINT, OCTANE, AND VISCOSITY )
69	Machinery Equipment	Turbines	6000002490	TURBINE; COMB. GAS; AERO; UP TO 30,000 HP	TURBINE COMBUSTION GAS; AERO-DERIVATIVE & LIGHT INDUSTRIAL TYPE, ANY, UP TO 30,000 HP, 32-SAMSS-100, S-K-502
70	Machinery Equipment	Turbines	6000002496	TURBINE; STEAM; GENERAL PURPOSE	TURBINE STEAM; ANY, ANY STAGE(S), 32-SAMSS-009
71	Machinery Equipment	Compressors	6000002244	COMPRESSOR; AIR; CENTRIFUGAL; INTEGRALLY	COMPRESSOR AIR; CENTRIFUGAL, INTEGRALLY GEARED TYPE, 31-SAMSS-006
72	Machinery Equipment	Compressors	6000002245	COMPRESSOR; CENTRIFUGAL; BEAM-TYPE, API-617	COMPRESSOR; CENTRIFUGAL BEAM-TYPE TYPE, API-617, 31-SAMSS-001, NOTICE TO REQUISITIONER: THIS 9COM
73	Machinery Equipment	Compressors	6000002247	COMPRESSOR; RECIPROCATING; 31-SAMSS-003	COMPRESSOR; RECIPROCATING TYPE, 31-SAMSS-003
74	Machinery Equipment	Compressors	6000002338	COMPRESSOR; SMALL CAPACITY, PLANT AND IN	COMPRESSOR; SMALL CAPACITY TYPE, 31-SAMSS-002, PLANT AND INSTRUMENT AIR
75	Machinery Equipment	Compressors	6000014210	COMPRESSOR; PROCESS; CENTRIFUGAL INTEGRALLY	COMPRESSOR PROCESS; CENTRIFUGAL, INTEGRALLY GEARED TYPE, FOR, ANY, 31-SAMSS-001
76	Machinery Equipment	Power Transmission	6000000722	TRANSMISSION: VARIABLE SPEED	COUPLING SHAFT; STYLE ANY, ANY BORE, 13-SAMSS-001, API 613, HYDRAULIC OR PERMANENT MAGNET, VARIABLE OR ADJUSTABLE SPEED, WITH OR WITHOUT GEAR, WHEN GEARED ROTORS USED SHALL COMPLY WITH 13-SAMSS-001 AND API-613.
77	Machinery Equipment	Pumps	6000015670	PUMP: CENTRIFUGAL; API 68S SEALLESS	PUMP CENTRIFUGAL; API 68S SEALLESS TYPE, SIZE ANY, ANY, SINGLE STAGE(S), 31-SAMSS-685
78	Machinery Equipment	Pumps	6000002303	PUMP: ROTARY, SCREW, API 676	PUMP ROTARY; SCREW TYPE, ANY, API 676

S/N	Commodity Group	Commodity	Material	Material Description	Material Long Description
79	Machinery Equipment	Pumps	6000002361	PUMP; RECIPROCATING, 31-SAMSS-009	PUMP RECIPROCATING; POSITIVE DISPLACEMENT, CONTROLLED VOLUME TYPE,ANY,31-SAMSS-009
80	Machinery Equipment	Pumps	6000002365	PUMP; VACUUM; API 681, HIGH POWER	PUMP; VACUUM TYPE,ANY,API 681,HIGH POWER, LIQUID RING VACUUM PUMPS OR COMPRESSORS
81	Machinery Equipment	Pumps	6000002368	PUMP; RECIPROCATING, 31-SAMSS-674	PUMP RECIPROCATING; PISTON, PLUNGER TYPE,ANY, API 674
82	Machinery Equipment	Pumps	6000014170	PUMP; HORZ; MULTISTAGE; 10 MW AND ABOVE	PUMP CENTRIFUGAL; HORIZONTAL TYPE,SIZE ANY, ANY, MULTISTAGE STAGE(S), DOUBLE CASE, RADIIALLY SPLIT CASING, HORIZONTAL MTG, 31-SAMSS-004,10,000 KW AND ABOVE
83	Not assigned	Skids	6000002461	SKID; NITROGEN GENERATION; MEMBRANE TYPE;	SKID; MEMBRANE TYPE,32-SAMSS-038,NITROGEN GENERATION
84	Not assigned	Crane	6000002323	CRANE; JIB; HOISTING; 1/2 TON TO 10 TON;	CRANE JIB; PILLAR MOUNTED OR WALL MOUNTED TYPE,1/2 TON TO 10 TON LIFT,ANY SPAN,ANY MAX HT,ANY ROTATION,MATERIAL HANDLING OPERATIO,SAMSS-007,S-H 5-M-001,E B 30.11 & ASME B A 74
85	Safety & Health	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.
86	Safety & Health	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 ON9CM 6000001310
87	Safety & Health	Safety & Security Equip	6000001390	COATING; FIREPROOFING	COATING; FIREPROOFING TYPE,FOR ONSHORE, PLANT STRUCTURES, CEMENTITIOUS
88	Safety & Health	Safety & Security Equip	6000014422	MONITOR; FIREFIGHTING, REMOTE CONTROL	MONITOR; FIREFIGHTING, REMOTE CONTROL TYPE,ANY RANGE,ELECT OR HYDRAULIC OPERATED SUPPLY,MEETING 21-SAMSS-16,FULL SYSTEM FULL CONTROL INDUSTRIAL APPLICATIONS MEETING PROJECT SPECS
89	Safety & Health	Safety & Security Equip	6000015500	REEL; OUTDOOR FIRE LIVE HOSE ASSY	REEL; OUTDOOR FIRE LIVE HOSE ASSEMBLY TYPE,SIZE 38.10 M (125 FT)HOSE LG,SAES-B-017,CONSISTING OF A CABINET, BASE RETRACTABLE HOOD, NON- COLLAPSIBLE FIRE HOSE WITH FIXED REEL AND GRIP NOZZLE, CABINET & HOOD TO BE FABRICATED FROM SHEET STEEL W/ AIR VENTILATION OPENINGS, CABINET STAND, HOOD & CABINET DIMENSIONS & DESIGN SHALL BE APPROVED BY FRPD/ RSA , HOSE OF 38.10 M (125 FT LG NONE-COLLAPSIBLE W/ 250 PSI WP ON HORIZONTAL REEL FOR STATIONARY MOUNTING, SUPPLIED W/ BRAS NOZZLE MARINE ELECTROLESS COATED TYPE W/ PISTOL GRIP CAPABLE OF DISCHARGING 95 GPM AT 100 PSI W/ 90 DEGREE FOG,ALL EXTERNAL & INTERNAL SURFACES TO BE PAINTED RED, , ZINC-PHOSPHATED, SUPER POWDER COATED W/ THICKNESS OF AT LEAST 0.1 MM.
90	Safety & Health	Safety & Security Equip	6000017430	COATING; FIREPROOFING, ONSHORE, PLANT ST	COATING; FIREPROOFING TYPE,FOR ONSHORE, PLANT STRUCTURES, INTUMESCENT
91	Static Equipment	Pipe	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
92	Static Equipment	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
93	Static Equipment	Pipe	6000000026	PIPE; SCRAPER TRAP; STEEL; 02-SAMSS-009	PIPE METALLIC; ANY NPS,ANY,STEEL,02-SAMSS-009,SCRAPER TRAP
94	Static Equipment	Pipe	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 171,APPLICATIONS: ONSHORE / OFFSHORE WATER AND HYDROCARBON APPLICATIONS, REINFORCEMENT: STEEL AND FIBER
95	Static Equipment	Pipe	6000000042	PIPE & FITTINGS ;NONMETALLIC, RTP PIPE	PIPE NON-METALLIC; MAXIMUM 8 INCHES NPS,REINFORCED THERMOPLASTIC (RTP),INTERNAL / EXTERNAL LINING THERMOPLASTIC(PE, PE- RT, PP,PA,PVDF,PREFABRICATED SPOOL ENDS, FOR WATER AND HYDROCARBON APPLICATIONS MAX TEMP 180 F,API RP 155,ONSHORE / OFFSHORE WATER AND HYDROCARBON APPLICATIONS
96	Static Equipment	Pipe	6000000054	PIPE; METALLIC; NICKEL & NICKEL ALLOY	PIPE METALLIC; ANY SIZE NPS,ANY,NICKEL AND NICKEL ALLOY,SEAMLESS OR WELDED,01-SAMSS-046,COMPLIANCE TO NACE MR0175/ISO 15156 REQUIRED FOR SOUR SERVICE
97	Static Equipment	Pipe	6000009160	PIPE; METALLIC, CLAD PIPE	PIPE METALLIC; ANY NPS,ANY, CARBON STEEL,CLAD WITH CORROSION RESISTANT ALLOY,01-SAMSS-048,API 5LD
98	Static Equipment	Pipe	6000014200	PIPE; Copper-Nickel, EEMUA, ASTM	PIPE; COPPER NICKEL (CUNI) PIPE OR T TYPE,COPPER-NICKEL
99	Static Equipment	Pipe	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.
100	Static Equipment	Pipe	6000014900	MACHINE; HOT TAP; PIPELINE SERVICE	MACHINE; HOT TAP TYPE,WITH/WITHOUT POWER UNIT
101	Static Equipment	Pipe Fittings	6000014012	FITTING;PIPE,WELD OVERLAYED;02-SAMSS-012	FITTING; PIPE; CARBON STEEL/LOW ALLOY STEEL,ANY CORROSION RESISTANT WELD OVERLAY FINISH,02-SAMSS-012,01-SAMSS-044, 02-SAMSS-005,ELBOW,TEE,CAP,CROSS OR ANY FITTING. [NOTE: CLAD SPOOL FABRICATION RESTRICTION IN SAES-L-101 SHALL APPLY. TO BE SUPPLIED IN CLAD SPOOL, COVERED BY 9COM 6000014018.]
102	Static Equipment	Pipe Fittings	6000000076	BOSS; PIPE; WELDING; ANY METAL;	BOSS WELDING; ANY OUTLET,ANY,ANY METAL,ANY METAL
103	Static Equipment	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
104	Static Equipment	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)
105	Static Equipment	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
106	Static Equipment	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
107	Static Equipment	Pipe Fittings	6000000089	BRANCH; PIPE; O-LET, ANY STEEL	BRANCH PIPE; ELBOW-LET, WELDOLET, THREDILET, SOCKOLET, 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
108	Static Equipment	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
109	Static Equipment	Pipe Fittings	6000000109	FLANGE; PIPE; SOCKET WELD;THRD ALLOY ST.	FLANGE PIPE; SW AND THREADED TYPE,ANSI CLASS SUPPLY,FLANGED RJ, FF, RF TERMINAL IN NPS,NPS,MM (IN), SCH,MM (IN) FLG BORE,HIGH ALLOY AND STAINLESS STEEL AND NICKEL ALLOY,ASTM,GR ASTM STEEL, GRADE,FORGED,BARE FINISH,ANSI B16.11,ANSI B16.5,ANSI B16.5
110	Static Equipment	Pipe Fittings	6000000110	FLANGE; PIPE; SW;THRD; CS, LOW ALLOY	FLANGE PIPE; SW AND THREADED TYPE,ANY NPS,CARBON STEEL AND LOW ALLOY STEEL,ASME B 16.5
111	Static Equipment	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
112	Static Equipment	Pipe Fittings	6000000123	NIPPLE; PIPE; ANY METAL	NIPPLE PIPE; SIZE IN,IN LG,ASTM,BARE FINISH,ASTM,ANSI,SEAMLESS
113	Static Equipment	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)
114	Static Equipment	Pipe Fittings	6000000134	SLEEVE; PIPE; TWO HALVES; BOLTED FLANGED	SLEEVE PIPE BOLTED; ANY NOM PIPE,STEEL,ANY WP, FOR PIPE REPAIR, FOR PIPE REPAIR
115	Static Equipment	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)
116	Static Equipment	Pipe Fittings	6000000188	FLANGE; COMPACT WN PAIR, M-F CONNECTOR	FLANGE PIPE; COMPACT FLANGE WN PAIR, WN-BIND, WN-WN SWIVEL-RING OR AS DESIGNED TYPE,ASME CLASS 900 AND ABOVE SUPPLY,WN WITH SELF-ENERGIZING SEAL TERMINAL,ANY NPS,ANY STEEL PER 02-SAMSS-011,ASME SEC VIII DESIGN,02-SAMSS-011,COMPLETE ASSEMBLY WITH MALE-FEMALE CONNECTOR, SEAL RING, BOLTS AND NUTS
117	Static Equipment	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
118	Static Equipment	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-HYDROM CARBON UTILITY.
119	Static Equipment	Pipe Fittings	6000014710	FLANGE; PIPE; CONNECTOR, MECHANICAL END	FLANGE PIPE; CONNECTOR TYPE,ANY NPS,ANY,MECHANICAL END CONNECTORS
120	Static Equipment	Vessels	6000014740	VESSEL INTERNAL, 3-PHASE ELECTROSTATIC	VESSEL; INTERNAL TYPE,ANY,SEPARATOR INTERNALS AND ELECTROSTATIC COALSER
121	Static Equipment	Vessels	6000002415	EJECTOR; AIR; STEAM OR WATER;	EJECTOR; ANY PROCESS,ANY,AIR,STEAM OR WATER ,AIR, STEAM OR WATER.
122	Static Equipment	Vessels	6000010731	TANK; DOME ROOF, ALUMINUM SAES-D-108,	TANK; DOME ROOF TYPE,ANY,ALUMINUM,SAES-D-108,APPENDIX 1 32-SAMSS-005,APPENDIX G,API 650
123	Static Equipment	Vessels	6000011206	HYDROCARBON FILTRATION PACKAGE	SKID; SKID/PACKAGE TYPE,SAES-A-017 (DESIGN),SAMSS-038 (SKID FABRICATION ASSEMBLY AND DESIGN OF FILTRATION SYSTEM (HYDROCARBON SERVICE) OIL /GAS/WATER STREAM
124	Static Equipment	Vessels	6000017141	INLINE MIXING UNIT;	UNIT; VALVE/SPOOL TYPE,SAES-A-010,01-SAMSS-010 ANSI B31.3,INLINE HIGH EFFICIENCY MIXER PACKAGE, ADJUSTABLE OR STATIC, TYPICALLY HAS SPOOL OR VAVLE, FITTINGS, INJECTION CONE, INJECTION PIPE SPOOL, INJECTION QUILL, HOUSING, INTERNAL MIXING PARTS. FOR SOUR AND NON SOUR SERVICE NPS PRODUCT RANGE PER PR, ANSI FLANGE 150 TO 900H. FOR MIXING OIL WITH WATER OR CHEMICALS. FABRICATION WITH APPROVED MANUFACTURER
125	Static Equipment	Vessels	6000018461	BACKWASHING/SELF CLEANING FILTER PACKAGE	PACKAGE; STORAGE AND VAPORIZATION FILTER TYPE,32-SAMSS-038, SAES-A-017, FOR PHYSICAL SEPARATION OF SUSPENDED SOLID PARTICLES FROM WATER, GAS, NGL/ CONDENSATE, GLYCOLS BY BACKWASHING WITH NO NEED FOR MANUAL INTERVENTION. TYPICALLY SKIDDED UNIT-INCLUSIVE OF INTERCONNECTING PIPING, VALVES, INSTRUMENTATION ASSOCIATED PIPING AND SAES-A-017 AND ASSEMBLY PER 32-SAMSS-038. PHYSICAL ARATION
126	Static Equipment	Heat Transfer Equip	6000002394	BOILER; WATER TUBE	BOILER; WATER TUBE TYPE,32-SAMSS-021
127	Static Equipment	Heat Transfer Equip	6000002397	BRICK; REFRACTORY	BRICK REFRACTORY; BRICK REFRACTORY
128	Static Equipment	Heat Transfer Equip	6000002433	HEAT EXCHANGER; AIR COOLED; 32-SAMSS-11;	HEAT EXCHANGER AIR COOLED; ANY TYPE,ANY INLT/OTL,32-SAMSS-011
129	Static Equipment	Heat Transfer Equip	6000002487	BUNDLE; TUBE; 32-SAMSS-007;	BUNDLE TUBE; ANY TYPE,32-SAMSS-007
130	Static Equipment	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
131	Static Equipment	Heat Transfer Equip	6000011229	BURNER; HIGH INTENSITY, FOR SULFUR	BURNER; HIGH INTENSITY TYPE,HIGH INTENSITY, FOR SULFUR RECOVER UNIT REACTION FURNACE

S/N	Commodity Group	Commodity	Material	Material Description	Material Long Description
132	Static Equipment	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
133	Static Equipment	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
134	Static Equipment	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 6A
135	Static Equipment	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
136	Static Equipment	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
137	Static Equipment	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 BETTERFLY VALVE METAL SEATED, ZERO LEAKAGE. ANY SIZE AND ANY RATING FLANGED OR BETTWELD ENDS API 609 CATEGORY B
138	Static Equipment	Valves	6000000274	VALVE; CHECK; SWING, REGULAR; 26 IN & UP	VALVE CHECK; SIZE 26 INCH AND UP,ANSI CL 150 AND UP SUPPLY,STEEL BODY,SWING,FLANGED OR BUTTWELD END CONN,METAL SEAT, 04-SAMSS-005, 04-SAMSS-035 04-SAMSS-048, REGULAR PATTERN
139	Static Equipment	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 WAFFER END CONN,04-SAMSS-035,04-SAMSS-048 04-SAMSS-005
140	Static Equipment	Valves	6000000278	VALVE; CHECK; TILTING DISC; 2 TO 24 IN	VALVE CHECK; SIZE 2 THRU 24 INCH,ANSI CL 150 AND UP SUPPLY,STEEL BODY,TILTING DISC,FLANGED OR BUTTWELD END CONN,04-SAMSS-035,04-SAMSS-048
141	Static Equipment	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
142	Static Equipment	Valves	6000000292	VALVE; GATE; UP TO 12 INCH; NON-FERROUS;	VALVE GATE; SIZE UP TO NPS 12,ANY RATING, ALLEND SUPPLY,NON-FERROUS, (BRONZE/ALUMINUM-BRONZE BODY,04-SAMSS-035,04-SAMSS-048 04-SAMSS-001,WITH OR WITHOUT ACTUATOR
143	Static Equipment	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
144	Static Equipment	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
145	Static Equipment	Valves	6000000296	VALVE; GATE; WEDGE OR DBL DISC; UP TO 12	VALVE GATE; SIZE UP TO NPS 12,ANY RATING, ALLEND SUPPLY,CAST OR DUCTILE IRON BODY,04-SAMSS-035,04-SAMSS-048 AWWA,WITH OR WITHOUT ACTUATOR
146	Static Equipment	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
147	Static Equipment	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 THRU 5000
148	Static Equipment	Valves	6000000314	VALVE; GATE; API 6A, 10000 PSI	VALVE GATE; SIZE 1-13/16 INCH AND UP,10000 PSI SUPPLY SUPPLY,HUBBED, FLANGED AND BUTTWELD END CONN,ANY BODY,04-SAMSS-055,API 6A,WITH OR WITHOUT ACTUATOR
149	Static Equipment	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
150	Static Equipment	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
151	Static Equipment	Valves	6000009414	VALVE; SANDWICH, 2 IN. AND UP, ASME CLAS	VALVE; GATE, SANDWICH TYPE,SIZE NPS 2 AND UP, STEEL,ASME CLASS 150 AND UP SUPPLY,FLANGE END CONN,04-SAMSS-035, 04-SAMSS-048
152	Static Equipment	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
153	Static Equipment	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
154	Static Equipment	Valves	6000014491	VALVE; NPS 2 TO 20, COMPOSITE MATERIAL	VALVE; BUTTERFLY, BALL OR CHECK TYPE,SIZE NPS 2 THRU 20,ASME CLASS 150 & 300 SUPPLY,FLANGED END CONN,COMPOSITE (NON-METALLIC) BODY

End of 2026 Material Sourcing List