

2023 Sourcing List

Commodity	Material	Short Description	Short Description (in Chinese) 产品中文描述 仅供参考	Long Description
Chemicals	1000757581	H2S SCAVENGER, POWDER	硫化氢吸收剂	H2S SCAVENGER ZINC-FREE IRON GLUCONATE ADDMIXTURE DRILLING MUD, POWDER FORM-IRON GLUCONATE FOR SCAVENGING HYDROGEN SULFIDE FROM DRILLING FLUIDS-IRON GLUCONATE 25 KG (55 LBS.) PAIL OR SEALED BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATERPROOF. THE CONSTRUCTION OF THE MULTI WALLIED PAPER BAG (CONTAINER) SHALL BE AS FOLLOWS: LST #175 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 3RD PLY 75 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY) SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARABCO EXPORT PACKING MANUAL. H2S SCAVENGER ZINC-FREE IRON GLUCONATE: A HIGHLY WATER SOLUBLE GRANULAR POWDER OF IRON GLUCONATE WITH NO HAZARDOUS SUBSTANCES AND USED TO SCAVENGE HYDROGEN SULFIDE FROM WATER BASED AND OIL-BASED DRILLING FLUIDS. CHEMICAL AND PHYSICAL SPECIFICATIONS: PURITY (IRON GLUCONATE): >90%WT. APPEARANCE: LIGHT YELLOW-GREEN GRANULAR POWDER PH (1% OR WATER SOLUTION): 4-5.5 SOLUBILITY: 100% SOLUBLE IN WATER ONE LB./BBL. OF PRODUCT REMOVES APPROXIMATELY 150-220 MG/LITER SULFIDES BULK DENSITY: 650-850 KG/M3 @ 68°F (20°C). SAUDI ARABCO 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 SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT.
Chemicals	1000022136	WATER SOLUBLE CORROSION INHIBITOR	水溶性缓蚀剂	ADDITIVE DRILLING FLUID, LIQUID FORM-CORROSION INHIBITOR AND BIODICIDE FOR USED AS A PACKER FLUID CORROSION INHIBITOR LIQUID AMINE WITH METHANOL MICROBIOSTAT 55 GAL (208 LITER) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARABCO EXPORT PACKING MANUAL. CORROSION INHIBITOR MICROBIOSTAT: A COMBINED LIQUID BIODICIDE AND CORROSION INHIBITOR, CATIONIC, WATER SOLUBLE, HETEROCYCLIC AMINE BLENDING WITH METHANOL MICROBIOSTAT TO CONTROL AEROBIC AND ANAEROBIC BACTERIAL GROWTH. IT IS USED AS A PACKER FLUID CORROSION INHIBITOR TO CONTROL GENERAL CORROSION ATTACK ON CASING, TUBING AND DOWNHOLE TOOLS IN CONTACT WITH CLEAR AND VISCIFIED COMPLETION BRINES. CHEMICAL AND PHYSICAL SPECIFICATIONS: LIGHT (OR PAIL) COLORED LIQUID WATER SOLUBLE SPECIFIC GRAVITY @ 68°F (20°C): 0.98 - 1.07. SAUDI ARABCO 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 SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT.
Chemicals	1000022533	CALCIUM CHLORIDE (77-78%) 2200 LB/BAG	二氯化钙 (77% Min. purity)	CALCIUM CHLORIDE (77-78%) 1000 KG/8IG BAG ADDITIVE DRILLING FLUID, DRY FLAKES, PELLETS, OR GRANULAR FORM-DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE, USED AS WEIGHING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARIC 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 WEIGHING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES.CALCIUM CHLORIDE 77-78% 1000 KG (2204 LBS) MULTI WALL MOISTURE PROOF POLYETHYLENE BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP, BAG IS DISPOSABLE. TOP CLOSURE WATER-TIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING AND 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 ARABCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGH THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL 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 ARABCO EXPORT PACKING MANUAL. ASTM D98-68/PRACTICE E29 / ASTM D345 - 02(2010) STANDARD TEST METHOD FOR CaCl2 SAMPLING AND TESTING. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS. PURITY: CaCl2 77% WT. MINIMUM PASS THROUGH 7/16 IN SIEVE: 100%WT. NO PARTICLES GREATER THAN 1.0MM IN ANY DIMENSION. ALKALI CHLORIDES 45 NA%: 7% WT. MAXIMUM AND MgCl2: 3% WT. MAXIMUM HEAVY METALS AS PBI: 0.005% WT. MAXIMUM. SULFATE AS CASO4: 0.005% WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE.
Chemicals	1000022538	CALCIUM CHLORIDE (94-98%) 2200 LB/BAG	无水氯化钙 (94% Min. purity)	CALCIUM CHLORIDE (94-98%) 1000 KG/8IG BAG ADDITIVE DRILLING FLUID, DRY FLAKES, PELLETS, OR GRANULAR FORM-DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE USED AS WEIGHING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARIC 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 WEIGHING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES.CALCIUM CHLORIDE 94-98% 1000 KG (2204 LBS) MULTI WALL MOISTURE-PROOF POLYETHYLENE BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP-BAG IS DISPOSABLE. TOP CLOSURE WATER-TIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING AND 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 ARABCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGH THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL 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 ARABCO EXPORT PACKING MANUAL. ASTM D98-68/PRACTICE E29 / ASTM D345 - 02 (2010) STANDARD TEST METHOD FOR CaCl2 SAMPLING AND TESTING. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS. PURITY: CaCl2 94 %WT. MINIMUM PASS THROUGH 4 MESH SIEVE: 100%WT. NO PARTICLES GREATER THAN 4.75MM IN ANY DIMENSION ALKALI CHLORIDES 45 NA%: 5.0%WT. MAXIMUM. AS MgCl2: 0.5%WT. MAXIMUM HEAVY METALS AS PBI: 0.005%WT. MAXIMUM. SULFATE AS CASO4: 0.005%WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE: 0.20%WT.
Chemicals	1001129231	Anhydrous Calcium Bromide Dry	无水溴化钙 (95% Min.purity)	CALCIUM BROMIDE (ANHYDR) 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 SOLUTIONS TO FORMULATE SOLIDS-FREE NON DAMAGING HIGH-DENSITY BRINE BLENDS WITH DENSITIES UP TO 1.43 (13.1 LB/GAL). APPEARANCE: WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR, NO LUMPS SATURATED BRINE SOLUTION. CLEAR COLORLESS PURITY AS CaBr2: 95% MINIMUM. SG: AT 77 DEG F (25 DEG C): 1.2 - 1.4 SOLUBILITY IN WATER AT 68 DEG F (20 DEG C): WT PERCENT 58 MINIMUM IRON, PPM: 10 MAXIMUM CHLORIDE AS CaCl2, WT PERCENT 1.5 MAXIMUM SULFATE, PPM: 200 MAXIMUM HEAVY METALS, PPM: PBI: 5 MAXIMUM HG: 1 MAXIMUM AS: 5 MAXIMUM CD: 5 MAXIMUM SAUDI ARABCO 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). 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 NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET MSDS.

Chemicals	1001130337	Radiagreen EME Salt	酯基潤滑劑	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; 5 GAL (208 LITER) DRUM (NET VOLUME) APPEARANCE: YELLOW TO DARK AMBER, SWEET AND MILD ODOR SOLUBILITY IN WATER: INSOLUBLE IN WATER SPECIFIC GRAVITY AT THE RANGE BETWEEN 0.91 (20°C), 0.91 - 1.05 FLASH POINT (PASC): GREATER THAN 212° (100°C) IT WILL NOT GREASE 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: 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. IT IS NON-DAMAGING TO PRODUCING ZONES, NON-TOXIC, ENVIRONMENTALLY FRIENDLY AND HELPS PREVENT BIT BALLING AND DIFFERENTIAL STICKING. THE PRODUCT IS COMPATIBLE WITH SEAWATER AND MONOVALENT BRINE BASED DRILLING FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES.
Chemicals	1000823699	THINNER OBM	油基泥漿體系降粘劑	THINNER/DISPERSANT OBM CONDITIONER ADDITIVE DRILLING FLUID; LIQUID FORM SULFONATE BLEND WITH FATTY ACID/OLIGO USED TO LOWER RHEOLOGICAL PROPERTIES OF OIL BASE FLUIDS. POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID, 55 GALLON (208 LITER) DRUM. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. THINNER/DISPERSANT-OIL BASE MUD CONDITIONER: LIQUID POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID DERIVATIVES USED TO LOWER RHEOLOGICAL PROPERTIES FOR OIL BASE FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DARK AMBER LIQUID SOLUBILITY: INSOLUBLE IN WATER SPECIFIC GRAVITY: 1.00 - 1.06 FLASH POINT (PASC): > 212° F (100° C) SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS 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 INFORMATION. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT.
Chemicals	1000021672	HYDROXY ETHYL CELLULOSE (HEC)	羟乙基纖維素	ADDITIVE DRILLING FLUID; DRY FREE FLOWING WHITE POWDER FORM/HYDROXY ETHYL CELLULOSE (HEC) FOR MULTI-PURPOSE VISCOSIFYING POLYMER FOR FRESHWATER, SEA WATER SALT SATURATED WATER AND COMPLEX BRINE SYSTEMS. HYDROXY ETHYL CELLULOSE (HEC) 50 LBS (22.7 KG). MULTI-WALLED PAPER BAG, VALVE/SPOUT TYPE COMPLETELY SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY (INTERIOR PLY) 108 COATING 0.000285 MICRON ALUMINUM SHEET 68 PE COATING 50 LB NATURAL KRAFT PAPER THE ALUMINUM SHEET IS COATED ON ONE SIDE WITH 108 PE THE 108 IS NEXT TO THE PRODUCT. THE COATED ALUMINUM SHEET LAMINATED TO #10 LB KRAFT PAPER. 2ND PLY 50 LB NATURAL KRAFT PAPER. 3RD PLY 50 LB NATURAL KRAFT PAPER. 4TH PLY 50 LB BLEACH WHITE NATURAL KRAFT PAPER (EXTERIOR PLY). THE BLEACHED PAPER IS FULLY BLEACHED WHITE. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. HEC-HYDROXY ETHYL CELLULOSE IS A NON-IONIC POLYMER, DRY FREE FLOWING WHITE POWDER, DENSES EASILY AND RAPIDLY SINKS IN FRESH WATER, SEA WATER, SALT SATURATED BRINE AND COMPLEX DIVALENT BRINE BLENDS TO DEVELOP VISCOSITY RELATED CHARACTERISTICS FOR DRILLING AND COMPLETION FLUIDS THAT IMPART MINIMUM FORMATION DAMAGE. THE HEC SHOULD BE EASILY BROKEN WITH ACID, ENZYMES, OR OXIDIZING AGENTS TO MAXIMIZE THE POTENTIAL FOR HYDROCARBON RECOVERY AND SHOULD BE STABLE AT TEMPERATURES UP TO 250° F (121° C). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: WHITE TO CREAM COLORED HYDROXYETHYLCELLULOSE (HEC) SHALL NOT CONTAIN ANY STARCH, GLUCR OR ANY OTHER POLYMERS OR THEIR DERIVATIVES. MOISTURE: 8%WT. MAXIMUM SPECIFIC GRAVITY: 1.38 - 1.40 PARTICLE SIZE: P445 THROUGH U.S. 20 MESH SCREEN (840 MICRON): 100% IN WT. SOLUTION IN DEIONIZED WATER BROKEDOWN: SPINBLE #4, 30 RPM (ASTM D 2196-91). VISCOSITY AT 77° F (25° C): 4,000-6,500 PH @ 77° F (25° C): 6-7 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
Chemicals	6000016483	Flat Rheology Oil Based Systems (FROBS).	油基泥漿體系	ADDMIXTURE DRILLING MUD, ANY DRILLING FLUIDS SYSTEM OR PRODUCT USED IN WATER BASED (H ₂ O/BR) OR OIL BASED MUD (O/BR) 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 FLUIDS (RDF), FILTER CAKE REMOVAL SYSTEM, HIGH PERFORMANCE WATER BASE MUD (HPWBM), HIGH PERFORMANCE OIL BASE MUD (HPOBM), SPACER CELESTING SYSTEM.
Chemicals	1000021557	CALCIUM BROMIDE (SOL 53% WT MINIMUM)	溴化鈣溶液 (52% Min.)	ADDITIVE DRILLING FLUID; SINGLE SALT (CABR2); SOLIDS-FREE BRINE FORM/CALCIUM BROMIDE (CABR2) FOR A PURE SOLIDS-FREE BRINE USED IN COMPLETION FLUIDS AND CAN BE BLENDED WITH ZINC/CALCIUM BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE NON-DAMAGING FLUIDS OF DENSITIES UP TO 1.43 G/CC (1.118 G/GAL) CALCIUM BROMIDE 55 GAL (208 LITER) 340 KG POLYPROPYLENE LINED STEEL DRUMS SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. REFER TO 09-181 FFFS EDITION, OCTOBER 2014 CALCIUM BROMIDE SOLUTION (CABR2); PURE, SOLIDS-FREE BRINE USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.20 G/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE, SOLIDS-FREE NON-DAMAGING HIGH DENSITY BRINE BLENDS WITH DENSITIES UP TO 1.43 G/CC (1.118 G/GAL). CHEMICAL AND PHYSICAL SPECIFICATIONS: CALCIUM BROMIDE (CABR2) SOLUTION 52% WT. MINIMUM COLORLESS, CLEAR LIQUID WITH NO ODOR CHLORIDE CONTENT: 1000 PPM (0.1% WT) MAXIMUM TURBIDITY: 0 NTU MAXIMUM SULPHATE CONTENT: 100 PPM (0.01% WT) MAXIMUM IRON CONTENT: 5 PPM MAXIMUM TOTAL HEAVY METALS (Zn, Pb, Hg, As AND Cd): 5 PPM MAXIMUM DENSITY: 1.20 G/CC (1.42 LB/GAL / 106.2 P/L) AT 70° F (21.1° C) MINIMUM PH OF 10% SOLUTION IN DI WATER: (BASIC) 7 - 8.5 TRUE CRYSTALLIZATION TEMPERATURE (T _C): 107° F (42.2° C) SOLIDS RETAINED ON 5 MICRONS FILTER PAPER: NONE 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, 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
Chemicals	1000845612	MANGANESE TETRAOXIDE - BAG	四氧化三錳	MICROMAX - MANGANESE TETROXIDE ADDITIVE DRILLING FLUID; FINE REDDISH BROWN POWDER FORM FINE REDDISH BROWN POWDER OF MANGANESE TETROXIDE (Mn2O3) WITH AVERAGE SPHERICAL 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 USE 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 WATER TIGHT, 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 POWDER, GLOBULES, MINOR: 85%WT MINIMUM FE CONTENT: 4-SWMT MAXIMUM PARTICLE DIAMETER: 190 LESS THAN 5 MICRONS AND D50 0.5 - 2 MICRONS, SOLUBILITY IN WATER: INSOLUBLE. PH (5% IN 50 ML DI WATER): 7 - 10.5, SPECIFIC GRAVITY @ 68 DEG F (20 DEG C): 4.8, MINIMUM BULK DENSITY: 8.4 LB/FT3 (550-1050 KG/M3), SURFACE AREA: 1 - 5 M2/G. MICROMAX IS ONLY SLIGHTLY SOLUBLE IN ORGANIC ACIDS SUCH AS CITRIC ACID, AND IT MUST NOT BE TREATED WITH HYDROCHLORIC ACID (HCL). BECAUSE THE REACTION PRODUCES CHLORINE GAS SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND

2022 Sourcing List

Chemicals	1000022135	AMINE CORROSION INHIBITOR	胺类缓蚀剂	HIGH TEMPERATURE CORROSION INHIBITOR ADDS TO DRILLING FLUID; LIQUID FORM;CORROSION INHIBITOR FOR HIGH TEMPERATURE, FOR ALLEVATE FRESH, BRACKISH OR BRINE PACKER FLUIDS CORROSION;LIQUID AMINES AND AMIDE,55 GAL (208 LITER)DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARABCO EXPORT PACKING MANUAL. HIGH TEMPERATURE CORROSION INHIBITOR: A BLEND OF AMINES AND IMIDAZOLINE AMIDE, SOLUBLE IN OIL AN DISPERSIBLE IN WATER USE TO ALLEVATE CORROSION I FRESH, BRACKISH OR BRINE PACKER FLUID AT HIGH WELBORE TEMPERATURES UP TO 400°F;IMIDAZOLINE ADSORPTION FORMS A CHEMICAL FILM ON IRON AN STEEL SURFACES AND DEVELOPS A PASSIVATION LAYER THAT PROVIDES CORROSION PROTECTION IN SODIUM-HLS, SWEET CO ₂ AND OXYGEN CORROSION ENVIRONMENT ENCOUNTERED OIL AND GAS WELLS. CHEMICAL AND PHYSICAL SPECIFICATIONS: DARK AMB LIQUID OIL SOLUBLE AND WATER DISPERSIBLE SPECIFIC GRAVITY @ 30°F (15°C): 0.89 FLASH POINT (PMCC) >184.4°F (85°C). SAUDI ARABCO 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). UDM REFERRED IN THIS MATERIAL SHEET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
Chemicals	1001071292	NON-EMULSIFIER SURFACTANT	非乳化剂表面活性剂	NON-EMULSIFIER SURFACTANT ADDS TO DRILLING FLUID; LIQUID NON-EMULSIFIER SURFACTANT FORM;NON EMULSIFIER SURFACTANT FOR LIQUID FORM. SURFACTANT DESIGNED AS NONEMULSIFIER ADDITIVE FOR ADDING LIMESTONE, DOLOMITE AND SANGONITE. OR FOR FRACTURE CLEANING TREATMENT LIQUID NON-IONIC WATER DISPERSING NON-EMULSIFIER SURFACTANT DESIGNED FOR APPLICATIONS IN CEMENTING, ACCIONS, WELL STABILIZATION, AND FRACTURING. THE PRODUCT CAN ALSO BE USED AS TREATMENT OF THE WELLBORE BEFORE DISPLACEMENT FROM OIL BASED MUDS TO WATER BASE;NON-EMULSIFIER SURFACTANT'S GAL PAIL, NET PRODUCT VOLUME OF 5-GAL;APPEARANCE: YELLOW LIQUID;SPECIFIC GRAVITY AT 68 DEG F (20 DEG C): 0.85-0.95. FLASH POINT: <86 DEG. F (30 DEG. C). NON DEGRADABLE IN 15% H ₂ S GAS. PAIL(18.9 LITERS). NET PRODUCT VOLUME OF 5-GAL. SAUDI ARABCO 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). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE O ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. U REFERRED IN THIS MATERIA IS NET VOLUME/WEIGHT LABEL: PRODUCT NAME, 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). UDM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
Chemicals	1001133608	Silicon based defoamer	硅基消泡剂	SILICONE BASED DEFOAMER ADDS TO DRILLING FLUID; HOMOGENEOUS MILKY WHITE LIQUID FORM;SILICONE BASED FOR LIQUID SILICONE-BASED DEFOAMER FOR MITIGATION AND PREVENTION OF FOAMING. COMPATIBLE WITH MOST WATER BASE AND CLEAR BRINE FLUIDS. IT HELPS TO CONTROL OR PREVENT FOAMING. IT HAS NO SIGNIFICANT EFFECT ON FLUID RHEOLOGY OR MUD DENSITY. SILICONE BASED'S GAL PAIL (NET VOLUME);PHYSICAL AND CHEMICALS SPEC. APPEARANCE: HOMOGENEOUS MILKY WHITE LIQUID. SPECIFIC GRAVITY 0.95-1.1. SILICONE CONTENT (PERCENT): 20 MINIMUM. ODOOR: MILD. SOLUBILITY I WATER: DISPERSIBLE. FLAS POINT: GREATER THAN 100 DEG C (212 DEG. F), VISCOSITY AT 25 DEG. C (77°F): 1.00-3.00. PH: 7-10. SAUDI ARABCO 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). UDM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. 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). (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
Chemicals	6000016483	Drilling Mud system	新型水基或者油基泥浆体系	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 LQA, HIGH-OVER-BALANCE MUD SYSTEM, SHALE INHIBITION MUD SYSTEM, RESERVOIR DRILL-IN FLUID(OIL), FILTER CAKE REMOVAL SYSTEM, HIGH PERFORMANCE WATER BASE MUD (HPWBM), HIGH PERFORMANCE OIL BASE MUD (HPOMB),SPACER CLEANING SYSTEM*
Chemicals	100081877	FORMIC ACID >90%	甲酸 (>90%)	MICRO-WASH FORMIC ACID-BAKER HUGHES ADDS TO 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 ARABCO 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 #100081425), PRIME-763(SAP #100081426), PRIME-770 (SAP #100081427), OHR-7 (SAP #100081421), OHR-4 (SAP #100081422), OHR-7 (SAP #100081423), OHR-7 (SAP #100081424), GLACI-KETIC ACID (SAP #100084765), AND FORMIC ACID (SAP #100081877)). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: CLEAR COLORLESS LIQUID FORMIC ACID: >90%. SAUDI ARABCO 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). UDM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. (AS APPLICABLE, SAFETY DATA SHEET SHOULD BE SUBMITTED WITH PO OFFER AND DURING MATERIAL DELIVERY)
Chemicals	6000016111	DRA	石油管道运输减阻剂	CHEMICAL; ANY SAP-503 DRA IT IS A CHEMICAL THAT IS COMPOSED OF LONG CHAIN OR 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.
Drilling Equipment	6000010721	16" X 18 5/8" Expandable Pipe System	可能胀管系统	UNIT; ANY TYPE EXPANDABLE CASING & ACCESSORIES
Drilling Equipment	6000010721	16" X 18 5/8" Expandable Pipe System	可能胀管系统	UNIT; ANY TYPE EXPANDABLE CASING & ACCESSORIES
Drilling Equipment	6000015784	9-5/8" X 7" Multilateral System, LEVEL 4,3 DEG	分支井工具系统	LATERAL; ANY NPS,ANY LATERALS AND ACCESSORIES EQUIPMENT
Drilling Equipment	6000004089	9-5/8" OH EXPANDABLE LATCH ANCHOR (Whipstock)	刹冲器	WHIPSTOCK; RETRIEVABLE TYPE ANY CONG DRILLING OPERATIONS
Drilling Equipment	6000004043	7" Single String ICD Installation	ICD系统组件	CEMENTING; ANY TOOL JOGANY DRILL COJUMULTI STAGE INFLATABLE AND MECHANICAL PACKER FOR CEMENTING (DV)
Drilling Equipment	6000004047	7" Isolation PACKER, EXPANDABLE WAB, 8.189"OD	封隔器系统组件	PACKER; ANY TYPE MECHANICAL ISOLATION PACKERS
Drilling Equipment	6000010715	Tracer Subs system [3-1/2" & 4-1/2"]	井下系统组件	PACKER; ANY TYPE EQUALIZER, SAND SCREENS, ACCESSORIES, VARIUOS
Electrical	6000001011	POWER SUPPLY:ELECTRICAL-SOLAR,CP	供电电源, 太阳能类型, 阴极保护	POWER SUPPLY ELECTRICAL CATHODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE,ANY POWER,ANY 17-SAMS5-012
Electrical	6000012080	BOX: JUNCTION, FOR U/G ANODE BED,CP	接线盒, 阴极保护	BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE,SIZE 2500003 (MINIMUM),CYLINDRICAL OR BOX SHAPE,1.2X26MM2 AND 2X70MM2 CONNECT,12+2 TERMINAL SCREW LUG CONNECTION FOR WEATHERPROOF (DIRECT BURIAL),NON CLASSIFIED,NON METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER,OPTIONAL HIGH-TEMPERATURE,THE 17-SAMS5-005 JUNCTION BOX FOR CATHODIC PROTECTION MEMBRANE GLANDS & PILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER
Electrical	6000011555	UPS SYSTEM ABOVE 200 KVA	不间断供电电源 大于200KVA	POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMS-516,5AES-P-103
Electrical	6000012042	UPS SYS ABOVE 10 TO 200KVA FOR IT & COMM	不间断供电电源 10 到 200KVA	POWER SUPPLY UNINTERRUPTIBLE; ABOVE 10 KVA UP TO 200 KVA,POWER 17-SAMS-516,5AES-P-103,MANUFACTURER STANDARD PRODUCT, IT & COMMUNICATION PRODUCT RANGE
Electrical	6000015902	UNIT; MOBILE SUBSTATION	移动变电站	UNIT; MOBILE SUBSTATION TYPE,1MSS-01,35-TMSS-1 TMS-10,46-TMSS-6 TMS-1,31-TMS-2 TMS-2,32-TMS-3 S1-TMS-1,37-TMSS-1 TMS-01,11-30MSS-03,34-TMS-1 MOBILE SUBSTATION 65 PER ATTACHED TECHNICAL SPECIFICATION, BASED ON SEC STANDARDS.#SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: ENGINEERING, DESIGN, MANUFACTURING, ASSEMBLING, FACTORY TESTING, DELIVERY TO USA, MINISTRY OF TRANSPORT APPROVAL, DOCUMENTATION,SPARE PARTS CATALOGUE, SUPPLY OF CRITICAL SPARE PARTS FOR COMMISSIONING, SITE PRE-COMMISSIONING.#
Electrical	6000016594	CAPACITOR BANK	电容器组	UNIT; SHUNT CAPACITOR TYPE,43-TMSS-01,5AES-P-116,POWER FACTOR CORRECTION CAPACITOR BANK 4.16KV THROUGH 380KV
Electrical	6000017620	UNIT, PREFABRICATED SUBSTATION, Yes, Yes	变电站	UNIT; PREFABRICATED SUBSTATION TYPE,16-SAMS5-24 PREFABRICATED SUBSTATIONS RATED UP TO 52KV FOR OFFSHORE AND ONSHORE.
Electrical	6000000903	SWITCH; DISCONNECT; HIGH VOLTAGE;	高压断路器	SWITCH DISCONNECT; HIGH VOLTAGE,ANY ACTION,ELECTRICAL TYPE,30-TMSS-01
Electrical	6000015923	BUS; ISOLATED PHASE BUS DUCT	封闭隔离母线	BUS, SIZE ANY,ANY,16-SAMS5-23,ISOLATED PHASE BUS DUCT
Electrical	6000016991	UNIT; MOBILE SUBSTATION; 69KV AND BELOW	移动变电站	UNIT; MOBILE SUBSTATION TYPE,OPERATING AT 69KV AND BELDOW
Electrical	6000017680	COATING; ELECTRICAL INSULATORS, HIGH VOL	高压绝缘子	COATING; ELECTRICAL INSULATORS TYPE,FOR HIGH VOLTAGE,SILICON
Electrical	6000001201	OHL COMPOSITE INSULATOR FOR T & D	绝缘子	INSULATOR TRANSMISSION & DISTRIBUTION; OHL COMPOSITE TYPE UP TO 230 KV,15-SDMS-02,15-TMSS-5
Electrical	6000000774	TRAY; CABLE, FIBERGLASS	玻璃钢桥架	TRAY; CABLE TYPE,FIBERGLASS,NEMA FG-1.5-P-104 SEC. 9
Electrical	6000014870	POLE LINE; POWER TRANSMISSION, 69 KV	电线杆, 69kv	POLE LINE, POWER TRANSMISSION TYPE,ANY LG TAPERED TUBULAR STEEL SHAPE,GALVANIZED STEEL,SEC 20-TMSS-02,RATED 69 KV AND UP
Electrical	6000001128	SUBMARINE,POWER CABLE,69 KV THRU 230 KV	海底电缆 69 KV - 230 KV	CABLE ELECTRICAL HIGH VOLTAGE; 69 KV THROUGH 230 KV SUPPLY ANY CONDUCTO,SUBMARINE POWER CABLE TYPE,COPPER CONDUCTO,POWER TYPE,15-SAMS5-004
Electrical	6000000999	FORM-WOUND BRUSHLESS SYNCH. MOTOR	无刷同步电机	MOTOR SYNCHRONOUS; 500 HP MINIMUM,POWER 4000+V MINIMUM,3 PHASE,HORIZONTAL MTEG,17-SAMS5-020
Electrical	6000001014	CP,POWER SUPPLY,RECTIFIER,IMPRESSED CURR	电源, 阴极保护	RECTIFIER IMPRESSED CURRENT; HODIC PROTECTION SE CONTROL TYPE,ANY OUTPUT,17-SAMS-005
Instrumentation and IT	6000002655	ANALYZER; BOTTOM SEDIMENT AND WATER;	含水分析仪	ANALYZER; BOTTOM SEDIMENT AND WATER TYPE,ANY RANGE,TO BE USED FOR LIQUID SERVICE APPLICATION ONLY NOT IN MULTI-PHASE SERVICE
Instrumentation and IT	6000002677	FLOWMETER; ANNUBAR; PITOT TUBE;	均速流量计	FLOWMETER; ANNUBAR, PITOT TUBE TYPE
Instrumentation and IT	6000002689	CALIBRATION GAS CYLINDER FOR GAS MONITOR	气体探测器 检验气柱	CYLINDER; CALIBRATION GAS TYPE,SIZE ANY,ANY,FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY
Instrumentation and IT	6000002742	FLOWMETER;FOR REDUCE PIPING REQUIREMENTS	缩径要求的流量计	FLOWMETER; 34-SAMS5-010,SPECIALTY FLOWMETER FOR REDUCING PIPING REQUIREMENTS (Note:Wedge meter or cone meter)
Instrumentation and IT	6000002782	MONITOR; GAS; COMBUSTIBLE	可燃气体探测器	MONITOR GAS; COMBUSTIBLE,ANY RANGE,34-SAMS5-014

2022 Sourcing List

Instrumentation and IT	600002786	MONITOR; GAS; HYDROGEN SULFIDE;	硫化氢气体探测器	MONITOR GAS; HYDROGEN SULFIDE; ANY RANGE; 34-SAMMS-514
Instrumentation and IT	600002787	MONITOR; GAS; COMBUSTIBLE; OPEN PATH TYP	开路式可燃气体探测器	MONITOR GAS; COMBUSTIBLE; ANY RANGE; 34-SAMMS-514; OPEN PATH TYPE
Instrumentation and IT	600002886	GAUGE; LEVEL; GLASS	玻璃液位表	GAUGE LEVEL; GLASS TYPE; 34-SAMMS-010; WITH BACKFLOW PREVENTER UNITS OR CHECK VALVE AS ASSEMBLY IF REQUIRED
Instrumentation and IT	600002925	ANALYZER; NIR SPECTROMETER;	近红外光谱分析仪	ANALYZER; NIR SPECTROMETER TYPE; ANY RANGE
Instrumentation and IT	600002926	TRANSMITTER; MULTIVARIABLE;	多变量变送器	TRANSMITTER; MULTIVARIABLE TYPE; ANY RANGE
Instrumentation and IT	600007215	FLOW METER; VENTURI TUBE	文丘里流量计	FLOWMETER; VENTURI TUBE AND NOZZLE TYPE; 34-SAMMS-010
Instrumentation and IT	600009881	Custody Meter, Multi-Path, Ultrasonic Liquid	多通道超声波流量计	FLOWMETER; CUSTODY TRANSFER LIQUID TYPE; CUSTODY TRANSFER LIQUID
Instrumentation and IT	600009890	CUSTODY PROVER, SMALL VOLUME, UNI PISTON	液位计校准仪	METER; UND PISTON (SMALL VOLUME) PROVER TYPE; 34-SAMMS-119; FOR LIQUID; CUSTODY TRANSFER
Instrumentation and IT	600009906	CUSTODY PRESET CONTROLLER, TRUCK LOADING	卡车装车系统预置控制器	COMPUTER FLOW; CUSTODY PRESET CONTROLLER TYPE; 34-SAMMS-847; FOR TRUCK LOADING AND UNLOADING SYSTEMS
Instrumentation and IT	6000014021	Analyzer; Physical Property	物性分析仪	ANALYZER; PHYSICAL PROPERTY TYPE; ANY RANGE (EXAMPLE: BOILING POINT, FLASH POINT, POUR POINT, CPP, PAV, COLOR, CLOUD POINT, FREEZE POINT, OCTANE, AND VISCOSITY)
Instrumentation and IT	6000014531	MPFM FOR GAS FIELD APPLICATION	气田多相流量计	FLOWMETER; MULTIPHASE FLOWMETER TYPE; 34-SAMMS-001; FOR GAS; FLOW RATE MEASUREMENT
Instrumentation and IT	6000014614	CUSTODY TANK GAUGING SYSTEM, RADAR	雷达液位 储罐计量系统	GAUGE TANK LEVEL; RADAR CUSTODY TRANSFER TYPE; ANY RANGE; 34-SAMMS-321; SAES-Y-301; RADAR TANK GAUGING SYSTEMS FOR CUSTODY TRANSFER
Instrumentation and IT	6000014893	FIBER OPTIC SENSING PLDS	光纤管道泄露监测系统	DETECTOR LEAK; FIBER OPTIC TYPE; FOR PIPELINE; SAES-2-003; THE FIBER OPTIC CABLE SENSING METHOD ANALYZES THE HEAT/TEMP AND THE CONDUCTIVITY OF THE CABLE TO DETECT THE LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.
Instrumentation and IT	6000009831	CUSTODY METER, TURBINE, LIQUID	液体涡轮流量计	FLOWMETER TURBINE; CUSTODY TRANSFER LIQUID TYPE; ANY 34-SAMMS-117
Instrumentation and IT	6000009832	CUSTODY METER, POS DISPL , LIQUID	正位移液体流量计	FLOWMETER POSITIVE DISPLACEMENT; CUSTODY TRANSFER LIQUID TYPE; ANY 34-SAMMS-118
Instrumentation and IT	6000009895	CUSTODY DENSITY METER, LIQUID	液体密度计	METER DENSITY; CUSTODY TRANSFER LIQUID TYPE; 34-SAMMS-510
Instrumentation and IT	6000009898	CUSTODY CHROMATOGRAPH, GAS OR LIQUID	气相色谱	CHROMATOGRAPH PROCESS; FOR CUSTODY TRANSFER CHROMATOGRAPH; ANY DETECTOR; ANY CARRIER; 34-SAMMS-515
Instrumentation and IT	6000009899	CUSTODY FLOW COMPUTER, LIQUID, PANEL-MNT	面板安装型 流量计算机	COMPUTER FLOW; PANEL MOUNTED TYPE; 34-SAMMS-841; FOR LIQUID CUSTODY TRANSFER
Instrumentation and IT	6000009908	Custody Tank Gauge, Radar	储罐雷达液位计	GAUGE TANK LEVEL; ANY TYPE; ANY RANGE; 34-SAMMS-321; CUSTODY TANK RADAR GAUGE; CUSTODY TRANSFER TANK LEVEL GAUGING
Instrumentation and IT	6000009900	CUSTODY FLOW COMPUTER, GAS, PANEL-MNTD	天然气流量计算机	COMPUTER FLOW; PANEL MOUNTED TYPE; 34-SAMMS-846; FOR GAS CUSTODY TRANSFER
Instrumentation and IT	6000013000	Multiplexer; Foundation Fieldbus (FF)	现场总线多路连接器	MULTIPLEXER; FOUNDATION FIELDBUS (FF) TYPE; SAES-I-900; 4A MULTI-INPUT TEMPERATURE
Instrumentation and IT	600002732	MONITOR; FLAME MONITORING SYSTEM	火焰监测系统	MONITOR; IGNITERS AND BURNERS USED E MONITORING SYSTEM IN FIRED EQUIPMENT; TYPE; ANY RANGE; 34-SAMMS-617
Instrumentation and IT	6000009509	Custody Tank Management System, Radar	雷达储罐管理系统	COMPUTER; FOR CUSTODY TRANSFER; 34-SAMMS-321; CUSTODY TANK MANAGEMENT SYSTEM; RADAR
Instrumentation and IT	6000010092	VALVE; CONTROL; CUSTODY DIGITAL FLOW CON	数字流量控制阀 (交易类型)	VALVE; CONTROL; CUSTODY TRANSFER; 34-SAMMS-321; CUSTODY TRANSFER DIGITAL FLOW CONTROL VALVE
Instrumentation and IT	6000014891	NEGATIVE PRESSURE WAVE (ACOUSTIC) PLDS	负压波检测系统	DETECTOR LEAK; NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE; FOR PIPELINE; SAES-2-003; THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE RAREFACTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.
Nonmetallic	6000000030	PIPE; NON-METALLIC; THERMOPLASTIC; CPVC;	CPVC管	PIPE NON-METALLIC; ANY NPS, CHLORINATED POLYVINYL CHLORIDE (CPVC); 201 1187; ASTM F441; SOLID-WALL MAXIMUM TEMPERATURE IS 82 C HOT AND COLD WATER INSTALLATIONS FOR HEATING SYSTEM INSTALLATIONS SYSTEM; HOT AND COLD WATER INSTALLATIONS WITHIN BUILDINGS; WATER FOR HUMAN CONSUMPTION; WATER FOR HEATING SYSTEMS; SLSIZED
Nonmetallic	6000000031	PIPE; NON-METALLIC; ALL SIZES; THERMOPLA	UPVC管	PIPE NON-METALLIC; ANY NPS, THERMOPLASTIC; UPVC; M D1785; 1412 AND ASTM D4216; SOLID-WALL MAXIMUM TEMPERATURE IS 45 C (UNPLASTICIZED POLYVINYL CHLORIDE (PVC)/UPVC) WATER SUPPLY AND FOR BURIED AND ABOVE-GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE WATER MAINS AND SERVICES; WATER ABOVE GROUND FOR BOTH OUTSIDE AND INSIDE BUILDINGS; BURIED AND ABOVE GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE; HYDROCARBON; HYDROPHOBIC ACID AND IPE; WGL; IED
Nonmetallic	6000000042	Pipe; Nonmetallic, (RTP) PIPE	柔性增强热塑性塑料复合管 (RTP管)	PIPE NON-METALLIC; MAXIMUM 8 INCHES REINFORCED THERMOPLASTIC (RTP); INTERNAL / EXTERNAL LINING THERMOPLASTIC (PE, FE, RT, PP PA, POF); PREFABRICATED SPOOL ENDS FOR WATER AND HYDROCARBON AND HYDROCARBON APPLICATIONS
Nonmetallic	6000000409	Hose; High pressure 500 psig and greater	高压软管; 500psi及以上 SAE100R	HOSE; SIZE ANY FOR GENERAL PURPOSES; 3P HIGH PRESSURE 500 PSIG AND GREATER; REINFORCED NATURAL OR SYNTHETIC RUBBER; SAE 100R; FOR GENERAL PURPOSES SUCH AS OIL AND WATER-BASED FLUIDS; PNEUMATIC APPLICATIONS; LOW PRESSURE HYDRAULIC; LUBRICATING FLUIDS; WATER ETC.
Nonmetallic	6000000410	Hose; Rubber wire reinforced dock hoses	橡胶增强输油软管 (甲板装卸管系)	HOSE; SIZE 102 MM (4 IN) TO 305 MM (12 IN); FOR ANY RUBBER WIRE REINFORCED DOCK HOSE; 22-SAMMS-004; FOR OIL SUCTION AND DISCHARGE OPERATIONS; NOMINAL HOSE BORE USED FOR TRANSFERRING CRUDE OIL AND LIQUID PETROLEUM PRODUCT (OTHER THAN LIQUEFIED PETROLEUM GAS AND LIQUEFIED NATURAL GAS); TEMPERATURE RANGES FROM 5°C (41°F) TO 80°C (180°F) AND MAXIMUM 40% AROMATIC HYDROCARBON CONTENT. FOR CRUDE OIL, TANKER FUEL AND HYDROCARBON PRODUCTS OTHER THAN LIQUEFIED PETROLEUM AND NATURAL GAS.
Nonmetallic	6000000411	Hose; Rubber, reinforced, smooth bore,	橡胶增强输油软管	HOSE; SIZE 150 MM (6 IN) TO 600 MM (24 IN); FOR OIL, MARINE FOR TANKER LOADING; RUBBER, REINFORCED; SMOOTH BORE; 22-SAMMS-004; OIL SUCTION AND DISCHARGE HOSES FOR USE AT OFFSHORE INSTALLATIONS. NOMINAL DIAMETER. THE HOSE TYPES ARE AS FOLLOWS: FLOATING HOSE; VARIABLY REINFORCED HALF FLOAT (VHF), FULL FLOAT (FF), AND RAIL/TAIL (RT) # SUBMARINE HOSE; STANDARD SUBMARINE (SS), SPECIALLY REINFORCED FOR SALM SERVICE (SRSS), AND VARIABLY REINFORCED FOR SPM SERVICE (VRSS). TEMPERATURE RANGES FROM 5°C (41°F) TO 63°C (145°F) AND MAXIMUM 25% AROMATIC HYDROCARBON CONTENT. OFFSHORE OIL SUCTION AND DISCHARGE CRUDE OIL AND LIQUID PETROLEUM PRODUCT (OTHER THAN LIQUEFIED PETROLEUM GAS AND LIQUEFIED NATURAL GAS)
Nonmetallic	6000010400	HOSE; OFFSHORE; OIL SUCT/DISC HOSES	海洋输油软管	HOSE; SIZE ANY FOR ANY; 22-SAMMS-004; RUBBER, REINFORCED; SMOOTH BORE; OIL SUCTION AND DISCHARGE HOSES FOR USE AT OFFSHORE INSTALLATIONS. SIZE RANGES FROM 150 MM (6 IN) TO 600 MM (24 IN) NOMINAL DIAMETER. 22-SAMMS-004; THE HOSE TYPES ARE AS FOLLOWS: FLOATING HOSE; VARIABLY REINFORCED HALF FLOAT (VHF), FULL FLOAT (FF), FULL FLOAT (FF), AND RAIL/TAIL (RT) # SUBMARINE HOSE; STANDARD SUBMARINE (SS), SPECIALLY REINFORCED FOR SALM SERVICE (SRSS), AND VARIABLY REINFORCED FOR SPM SERVICE (VRSS); TEMPERATURE RANGES FROM 5°C (41°F) TO 63°C (145°F) AND MAXIMUM 50% AROMATIC HYDROCARBON CONTENT. OFFSHORE OIL SUCTION AND DISCHARGE CRUDE OIL AND LIQUID PETROLEUM PRODUCT (OTHER THAN LIQUEFIED PETROLEUM GAS AND LIQUEFIED NATURAL GAS)
Nonmetallic	6000017130	FIRE-RETARDANT RTR	阻燃RTR管	PIPE NON-METALLIC; ANY NPS; ANY; 01-SAMMS-034; SAES-B-017; ISO 14662; PIPE & FITTING, FIRE RETARDANT NONMETALLIC RTR FOR ABOVEGROUND FIREWATER DISP. SPON. BASED REINFORCED THERMOSETTING RESIN PRESSURIZED PIPE. FILAMENT WOUND MANUFACTURING PROCESS WITH ADDITIONAL FIRE RETARDANT LAYER FOR ABOVEGROUND FIREWATER PIPING SYSTEMS (AND/FIRE COMBINED WATER SYSTEM AND DESIGNATED FIREWATER SYSTEM) IN ACCORDANCE WITH FM 1514. FIRE PERFORMANCE CLASSIFICATION AS PER ISO 14662-2 SECTION 6.3.2
Nonmetallic	6000007813	GRATING; OFFSHORE; FIRE RETARDANT	海工阻燃格栅	GRATING; FIRE RETARDANT TYPE; SIZE ANY; 11-THEO PHENOLIC RESIN; 12-SAMMS-023; NONMETALLIC FIBER-REINFORCED COMPOSITE PLATFORMS; SHORE
Nonmetallic	6000001430	FLOAT COLLAR; FOR MARINE HOSE	海洋软管浮环	BRASS; SIZE ANY; NATURAL OR SYNTHETIC RUBBER SPONGE; POLYVINYL CHLORIDE FOAM; POLYETHYLENE FOAM OTHER SUITABLE MATERIAL; FLOAT COLLAR FOR MARINE HOSES; UNIT; 22-SAMMS-004 E FLOATATION
Nonmetallic	6000018060	VESSEL; PRESSURE; ANY, FIBREGLASS-REINFO	玻璃钢制压力容器	FFR; 12-SAMMS-035; WATER SERVICES ONLY
Pipe & OCTG	6000007293	CRA Coupling for 4-1/2" to 9-5/8" with premium gas tight connection	4-1/2" to 9-5/8" 耐腐蚀合金连接, 气密封性特殊螺纹	COUPLING OCTG; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLIGS; SEAMLESS; API 5CTH; 13B80 AND 45-SAMMS-006; GR API 5CTH GROUP-2 TO GROUP-4 GRADES; SIZE ANY; CAL-IV QUALIFIED THREAD END CON; ANY LG
Pipe & OCTG	6000007303	CRA casing for 4-1/2" to 9-5/8" with premium gas tight connection	4-1/2" to 9-5/8" 耐腐蚀合金套管, 气密封性特殊螺纹	CASING OCTG; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLIGS; SEAMLESS; API 5CTH; 13B80 AND 45-SAMMS-006; GR API 5CTH GROUP-2 TO GROUP-4 GRADES; SIZE 4-1/2 IN AND LARGER SIZES; CAL-IV QUALIFIED THREAD END CON
Pipe & OCTG	6000007305	CRA crossover for 4-1/2" to 9-5/8" with premium gas tight connection	4-1/2" to 9-5/8" 耐腐蚀合金变径接头, 气密封性特殊螺纹	ADAPTER OCTG; NIPPLE; CROSSOVER/SWAGE; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLIGS; SEAMLESS; API 5CTH; 13B80 AND 45-SAMMS-006; GR API 5CTH GROUP-2 TO GROUP-4 GRADES; CAL-IV QUALIFIED THREAD
Pipe & OCTG	6000007307	CRA pup joints for 4-1/2" to 9-5/8" with premium gas tight connection	4-1/2" to 9-5/8" 耐腐蚀合金短节, 气密封性特殊螺纹	PIUP JOINT OCTG; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLIGS; SEAMLESS; API 5CTH; 13B80 AND 45-SAMMS-006; GR API 5CTH GROUP-2 TO GROUP-4 GRADES; SIZE 4-1/2 IN AND LARGER SIZES; CAL-IV QUALIFIED THREAD END CON
Pipe & OCTG	6000015250	Non-Metallic OCTG Products	非金属油套管	CASING OCTG; THERMOSETTING POLYMERS REINFORCED WITH FIBREGLASS; API 5CTH; 13B80 AND 45-SAMMS-006; GR API 5CTH GROUP-2 TO GROUP-4 GRADES; SIZE 4-1/2 IN TO 20 IN
Pipe & OCTG	6000013160	PIPE&FITTINGS;NON-METAL;RTR	玻璃制 (RTR) 非金属管&管件	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-SAMMS-042; API 1548; API 1548
Pipe & OCTG	6000013900	PIPE; NON-METAL; LINED PIPING SYSTEMS	衬氟管道	PIPE NON-METALLIC; SIZES RANGES FROM NPS 1 TO 20 NPS; (M/ANSI) CLASS 150 AND 300 SUPPLY; CARBON STEEL; HDG; PPF&FITTINGS SYSTEM VY CITY FITTER; PPA; LIND; 01-SAMMS-005; CORROSION FLUIDS; INCLUDING ACIDS AND ALKALINE SOLUTIONS SUCH AS HYDROCHLORIC ACID, NITRIC ACID, PHOSPHORIC ACID, CHLORINE/WATER, HYDRAULIC OIL, HYPOCHLORITE (SODIUM OR CALCIUM), SODIUM HYDROXIDE (CAUSTIC SODA), WATER, SEA/SALINE, WATER, AERATED AQUEOUS, DESALINATION BRINE, PRODUCED WATER, DISPOSAL SALT, WATER BRINE
Pipe & OCTG	6000014681	SERVICE; WET-TYPE COMPOSITE REPAIR EXT.	外腐蚀管道复合修复服务; 湿式	SERVICE; WET-TYPE THERMOSET COMPOSITE FIBER REINFORCED COMPOSITE; TYPE; SAEP-343; (JOM-PC) 200; 24817; USE FOR WATER, HYDROCARBON, CHEMICALS; PLANT PIPING AND PIPELINES; SUITABLE FOR EXTERNAL CORROSION UP TO 100 PERCENT METAL LOSS; FOR PLANT PIPING AND FITTINGS, IT SHALL BE UTILIZED AS A TEMPORARY REPAIR WITH A PRIOR APPROVAL FROM NONMETALLIC SCC
Pipe & OCTG	6000000012	PIPE; STEEL API 5L; SAW STRAIGHT; SOUR	直缝埋弧焊钢管, API5L标准, 酸性服役	PIPE METALLIC; ALL SIZE NPS; ANY; STEEL; GR GRADE B THRU X65; SAW STRAIGHT; SEAMABLE; LEVEL END; ENDS; API 5L; 01-SAMMS-035; SOUR SERVICE
Pipe & OCTG	6000010871	PIPE METALLIC; SAW STRAIGHT; NON SOUR	直缝埋弧焊钢管, 非酸性服役	PIPE METALLIC; ALL SIZE NPS; ANY; CS; GR GRADE B THRU X70; STRAIGHT SAW; API 5L; 01-SAMMS-035; NON SOUR SERVICE
Pipe & OCTG	6000014900	MACHINE; HOT TAP; PIPELINE SERVICE	管道带压开孔机	MACHINE; HOT TAP TYPE; WITH/WITHOUT POWER UNIT
Rotating Equipment	6000002244	COMPRESSOR; AIR; CENTRIFUGAL; INTEGRALLY	整装式离心压缩机	COMPRESSOR; AIR; CENTRIFUGAL; INTEGRALLY GEARED; TYPE; 32-SAMMS-006
Rotating Equipment	6000002417	FILTER; ELEMENT; COMBUSTION GAS TURBINE;	燃气轮机用进气末级滤芯	FILTER ELEMENT; FOR COMBUSTION GAS TURBINE; 32-SAMMS-006; AIR INLET; FINAL STAGE
Rotating Equipment	6000002367	PUMP; CENTRIFUGAL; CANNED MOTOR;	单级离心屏蔽泵	PUMP CENTRIFUGAL; CANNED MOTOR TYPE; SIZE ANY; SINGLE STAGES; API 610; 11-ISO5789
Rotating Equipment	6000002452	Mixer; Process; Propeller; Geared; Belt	工艺混合器	MIXER; PROCESS TYPE; IFR STANDARDS; PROPELLER; GEARED; BELT OR DIRECT DRIVE
Rotating Equipment	6000017940	PUMP SUBMERSIBLE, CRYOGENIC PER API 610	耐低温液泵	PUMP SUBMERSIBLE; ANY CRYOGENIC; PER API 610; COMPLETE UNIT; PUMP ALONE OR MOTOR ALONE, INCLUDING ACCESSORIES
Rotating Equipment	6000012484	MICROTURBINES; GAS TURBINE GENERATORS, U	微型燃气轮机	TURBINE COMBUSTION GAS; GAS TURBINE GENERATORS TYPE; UP TO 500 KW; 2-SAMMS-100; 30 GAS TURBINES
Rotating Equipment	6000017500	UNIT, 3D PRINTED PARTS FOR CRITICAL APP.	3D打印机组	UNIT; SAEP-413; ANY METALLIC AND NONMETALLIC; 3D PRINTED PARTS COMPONENTS FOR CRITICAL APPLICATIONS AS DEFINED IN SAEP-411
Rotating Equipment	6000002453	MIXER; SIDE ENTRY; 32-SAMMS-017; GEARED;	侧装齿轮式搅拌机	MIXER; SIDE ENTRY TYPE; 32-SAMMS-017; GEARED; ELECTRIC DRIVEN
Rotating Equipment	6000008842	PUMP, CENTRIFUGAL, HORIZONTAL, MOLTEN SU	卧式疏磺离心泵	PUMP CENTRIFUGAL; HORIZONTAL; TYPE; SIZE ANY; SINGLE STAGES; IFR STD DESIGN; SAES-6; 005; MOLTEN SULPHUR
Static Equipment	6000001821	AIR HANDLING UNIT; AHU; CHILLED WATER OR	水冷式或直膨式空气处理机组	AIR HANDLING UNIT; AHU TYPE; CHILLED WATER OR DIRECT EXPANSION; ONSHORE ALL SIZES AND OFFSHORE LESS THAN 10 TONS COOLING MANUFACTURER STANDARD
Static Equipment	6000001822	AIR CONDITIONING UNIT; SELF CONTAINED; O	整体式空气调节机组, AHRI 340及UL1995标准	AIR CONDITIONING UNIT; SELF CONTAINED TYPE; (PACKAGED UNIT) CERTIFIED TO AHRI 340 AND UL 1995 STD
Static Equipment	6000001823	AIR CONDITIONING UNIT; PACKAGED UNIT TRA	撬装/车载空气处理机组, 制冷剂R-22或R-134A	AIR CONDITIONING UNIT; PACKAGED UNIT; TRAILERIZED TYPE; AIR COOLED; R-22 OR R-134A; MANUFACTURER STANDARD
Static Equipment	6000001826	A/C Unit, mini-split, DE below 5.5 Tons	分体式空气处理机组, AHRI 210/240, UL-1995标准	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT; SPLIT TYPE; LESS THAN 5.5 TON COOLING TONNAGE; DIRECT EXPANSION TYPE; AHRI 210/240; UL-1995
Static Equipment	6000001862	A/C UNIT; SPLIT; DIRECT EXP. 5.5 TO 63 TONS	分体式直膨式空气处理机组, AHRI 340/360, UL1995标准	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT; SPLIT UNIT DIRECT EXPANSION TYPE; SIZES 5.5 TO 63 COOLING TONNAGE; COOLING; AHRI 340/360; UL1995; EER VALUE SHALL BE IN ACCORDANCE WITH THE EER TABLE IN SAES-K-001
Static Equipment	6000002404	TOWER; COOLING; WATER;	水冷却塔, 符合ASHRAE 90.1	TOWER COOLING; WATER TYPE; 27-SAMMS-037; ASHRAE 90.1

