



شركة النبراس العالي للمقاولات العامة والتجارة العامة وتجارة المواد الكيماوية محدودة المسؤولية

AL NABRAS AL AALI

General Contracting and General Trading and Chemical Trading LTD.

OILFIELD CHEMICALS

PRODUCT CATALOGUE 2026

Drilling Fluid Materials | Cementing Materials & Additives

Supplied against API & international specifications — API Spec 13A · API Spec 10A / ISO 10426-1



Al-Jadriyah, Baghdad, Iraq



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COMPANY PROFILE

Al Nabras Al Aali General Contracting and General Trading and Chemical Trading LTD. is an Iraqi company headquartered in Al-Jadriyah, Baghdad, active in general contracting, general trading and the trading of chemical materials. The company serves the oil & gas sector as a dedicated supplier of drilling fluid materials and cementing materials & additives to operators, drilling contractors and oilfield service companies.

Through a worldwide supply network, the company sources its chemicals from qualified international manufacturers and delivers them against API and international specifications. Every consignment is supported by certificates of analysis, batch traceability and QC documentation, with logistics managed end-to-end from the port of origin to the rig site.

To support international procurement, trading and re-export, the company operates its own office in Dubai —

AL NABRAS AL AALI LIMITED, Office 16036, Building 16, Jebel Ali Free Zone (JAFZA), Dubai, UAE — placing the company at one of the world's largest trade and logistics hubs, with direct access to global suppliers and shipping lines.



Worldwide Sourcing

Chemicals sourced from qualified manufacturers across the globe and supplied into Iraq and the region.



API & International Standards

Materials supplied against API Spec 13A and API Spec 10A / ISO 10426-1 acceptance criteria.



Oilfield Focus

Full range of drilling fluid materials plus cementing materials and additives for well construction.



Baghdad + Dubai Logistics

Head office in Baghdad with a JAFZA Dubai office for international trading, shipping and re-export.



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International trading, procurement & re-export

STANDARDS, QUALITY & PACKAGING

Every product in this catalogue is supplied against defined acceptance criteria drawn from API and international standards, and is verified by laboratory testing before shipment.



API Spec 13A — Drilling Fluid Materials

Bentonite, barite and other drilling fluid materials are supplied against API Specification 13A acceptance criteria (e.g. barite SG ≥ 4.20 , bentonite 600 r/min dial reading ≥ 30 , API filtrate limits).



API Spec 10A / ISO 10426-1 — Well Cements

Oil well cement is supplied as Class G, High Sulphate-Resistant (HSR) grade, meeting the chemical, physical and performance requirements of API Specification 10A / ISO 10426-1.



System & Performance Testing

Key additives carry a second acceptance level: performance in a representative mud system — AV / PV / YP, API filtrate and hot-roll ageing at 120 °C / 16 h — as detailed on each product page.



Batch Traceability & Certification

Each package is marked with product name, batch number and production date, and every batch is delivered with its Certificate of Analysis (COA). Materials are produced within the last 6 months, with a 3-year validity period.

PACKAGING FORMATS

25 kg PE-lined bags

25 / 50 kg PP bags

0.5 – 1.5 MT big bags (FIBC)

200 L steel drums

1 m³ (1000 L) IBC

Bulk supply

Note: Caustic soda is corrosive — appropriate PPE must be used during handling and mixing. Safety data sheets are available for all products on request.

PRODUCT RANGE AT A GLANCE

No.	Product	Description	Form	Packaging
DRILLING FLUID MATERIALS				
1	Bentonite	Sodium bentonite - WBM viscosifier (API 13A)	Powder	1 MT (1000 kg) big bag (FIBC); also 25 / 50 kg bag
2	Barite	Barium sulphate (BaSO ₄) - weighting agent (API 13A, SG 4.20)	Powder	1 MT (1000 kg) big bag (FIBC); also bulk
3	CaCO ₃	Calcium carbonate - bridging / acid-soluble weight	Powder / Granular	25 kg PP bag; also 1 MT (1000 kg) big bag
4	NaCl	Sodium chloride - brine / salinity / weight	Crystal / Powder	25 kg or 50 kg PP bag; also 1 MT (1000 kg) big bag
5	KCL	Potassium chloride - shale inhibitor	Powder	1 MT (1000 kg) big bag (FIBC); also 25 kg bag
6	PHPA	Partially hydrolysed polyacrylamide - shale encapsulator	Powder	25 kg PE-lined bag; also 750 kg big bag on request
7	PAC-HV	High-viscosity polyanionic cellulose	Powder	25 kg PE-lined paper / PP bag
8	PAC-LV	Low-viscosity polyanionic cellulose	Powder	25 kg PE-lined paper / PP bag
9	XCD	Xanthan gum - viscosifier / suspension agent	Powder	25 kg PE-lined paper / PP bag
10	YF-FLC	Modified starch - filtrate reducer	Powder	25 kg PE-lined paper bag
11	RS-1	Salt resisting filtrate reducer (lignitic)	Powder / Granular	25 kg PE-lined bag
12	NaOH / Na ₂ CO ₃	Caustic soda & soda ash - pH / alkalinity control	Flakes / Pearls / Powder	25 kg PE-lined PP bag
13	Citric Acid	Citric acid (anhydrous) - iron control / chelant	Crystal / Powder	25 kg PE-lined paper bag (waterproof membrane)
14	EP-LUBE	Extreme pressure lubricant (non-blooming)	Liquid	200 L (≈ 208 L / 55 gal) steel drum; also 1 m ³ (1000 L) IBC
15	PIPE-LAX (W)	Spotting fluid for stuck pipe (water-based)	Liquid	200 L (≈ 208 L / 55 gal) steel drum; also 1 m ³ (1000 L) IBC
16	LCM	Lost circulation materials (SZDL / SEAL / PF-BLN 1 / PF-BLN 2)	Powder / Granular	25 kg PP bag
CEMENTING MATERIALS & ADDITIVES				
17	Class G Cement	Oil well cement - API 10A Class G (HSR / High Sulphate Resistance)	Powder	Bulk; also 1.5 MT / 1 MT big bag (FIBC); 50 kg paper bag on request
18	Microsilica	Densified silica fume - cement strength / permeability reducer	Powder	0.5 MT (500 kg) or 0.8 MT (800 kg) big bag (FIBC)
19	Cementing Additive	Cement fluid loss & retarder (AMPS-based copolymer)	Powder	25 kg PE-lined paper bag
20	Expander Additive	Cement expander (MgO based)	Powder	25 kg PE-lined paper bag

All materials produced within the last 6 months; validity period: 3 years. Each package marked with product name, batch number, production date and certificate of analysis.



Bentonite

Sodium Montmorillonite (API 13A)

Form: Powder

Item	Acceptance Criteria
Appearance	Gray / tan free-flowing powder
Test method	API 13A standard test mud (22.5 g sample / 350 mL water)
Viscometer dial reading @ 600 r/min, mPa·s	≥ 30
YP / PV ratio	≤ 3
API filtrate volume, mL / 30 min	≤ 15.0
Residue on 75 µm (200 mesh) sieve, %	≤ 4.0
Moisture (as shipped), %	≤ 10



TYPICAL APPLICATION

Primary viscosifier for water-based muds — builds rheology and a low-permeability filter cake for hole cleaning and borehole stability.



PACKAGING

1 MT (1000 kg) big bag (FIBC); also 25 / 50 kg bag



Barite

Barium Sulphate (API 13A)

Form: Powder

Item	Acceptance Criteria
Appearance	Off-white / cream powder
Density (specific gravity), g/cm ³	≥ 4.20
Water-soluble alkaline earth metals (as Ca), mg/kg	≤ 250
Residue on 75 µm (200 mesh) sieve, %	≤ 3.0
Particles < 6 µm (equivalent spherical), %	≤ 30
Moisture, %	≤ 1.0



TYPICAL APPLICATION

Weighting agent used to raise fluid density for well control in water-based and oil-based drilling fluids and in cement slurries.



PACKAGING

1 MT (1000 kg) big bag (FIBC); also bulk

Alternative API 13A 'Barite 4.1' grade available - SG ≥ 4.10 on request.



Calcium Carbonate (CaCO₃)

Sized Bridging Agent

Form: Powder / Granular

Item	Acceptance Criteria
Appearance	White powder / granular
CaCO ₃ purity, %	≥ 95
HCl solubility, %	≥ 98
Specific gravity, g/cm ³	2.60 - 2.80
Moisture, %	≤ 1.0
Residue on 75 µm (200 mesh) sieve, %	≤ 5
Particle size - Fine grade (D50)	≈ 25 µm
Particle size - Medium grade (D50)	≈ 100 µm
Particle size - Coarse grade (D50)	≈ 600 µm



TYPICAL APPLICATION

Acid-soluble bridging and weighting agent for reservoir drill-in and completion fluids; graded fine / medium / coarse to match formation pore throats.



PACKAGING

25 kg PP bag; also 1 MT (1000 kg) big bag

Grade (fine / medium / coarse) selected to match formation pore-throat distribution.



Sodium Chloride (NaCl)

Sodium chloride - brine / salinity / weight

Form: Crystal / Powder

Item	Acceptance Criteria
Appearance	White crystalline powder
NaCl purity, %	≥ 98
Moisture, %	≤ 2.0
Water-insoluble matter, %	≤ 0.5
Sulphate (as SO ₄ ²⁻), %	≤ 0.3
Total Ca ²⁺ & Mg ²⁺ , %	≤ 0.2
Particles passing 30 mesh (600 µm), %	≥ 95



TYPICAL APPLICATION

Used to prepare brines and raise salinity and density in drilling, completion and workover fluids.



PACKAGING

25 kg or 50 kg PP bag; also 1 MT (1000 kg) big bag



KCL

Potassium Chloride

Form: Powder

Item	Acceptance Criteria
Appearance	Pink powder
KCl, g/100 g	≥ 92
NaCl, g/100 g	≤ 1.75
Total Ca ²⁺ & Mg ²⁺ , g/100 g	≤ 0.27
SO ₄ ²⁻ , g/100 g	≤ 0.20
Matter insoluble in water, g/100 g	≤ 0.3
Moisture, g/100 g	≤ 2.0



TYPICAL APPLICATION

Potassium-ion source for shale inhibition in KCl-polymer systems — controls swelling and dispersion of reactive clays.



PACKAGING

1 MT (1000 kg) big bag (FIBC); also 25 kg bag



PHPA

Partially Hydrolysed Polyacrylamide

Form: Powder

Item	Acceptance Criteria
Appearance	White / off-white granular powder
Solid content, %	≥ 88
Hydrolysis (anionic) degree, %	25 - 35
Molecular weight, million Daltons	8 - 15
Residue on 0.85 mm (20 mesh) sieve, %	≤ 10
Residue on 0.15 mm (100 mesh) sieve, %	≥ 85
Dissolution time in water (1 % solution), min	≤ 120
API filtrate volume in test mud, mL / 30 min	≤ 25



TYPICAL APPLICATION

High-molecular-weight polymer for shale encapsulation and cuttings stabilisation in inhibitive water-based systems.



PACKAGING

25 kg PE-lined bag; also 750 kg big bag on request



PAC-HV

High Viscosity Polyanionic Cellulose

Form: Powder

Item	Acceptance Criteria
GENERAL STANDARD	
Appearance	White / off-white free-flowing powder
Solubility	Water soluble
Moisture, %	≤ 10
API filtrate volume (ambient temp.), mL / 30 min	≤ 12
Apparent viscosity (ambient temp.), mPa·s	≥ 15
API filtrate volume (120 °C / 16 h aged), mL / 30 min	≤ 20
Apparent viscosity (120 °C / 16 h aged), mPa·s	≥ 2.5
SYSTEM / PERFORMANCE STANDARD	
<i>Formula: Drilling water + 0.2 % NaOH + 0.2 % Na₂CO₃ + 5 % KCl + 10 % NaCl + 8 % CONA + 1 % PAC-HV</i>	
AV, mPa·s (before roll)	50 - 70
API filtrate, mL/30 min (before roll)	≤ 25
AV, mPa·s (120 °C / 16 h aged)	10 - 30
API filtrate, mL/30 min (120 °C / 16 h aged)	≤ 15



TYPICAL APPLICATION

Filtration-control polymer that also builds viscosity in fresh-water and salt-water muds; effective at low concentrations.



PACKAGING

25 kg PE-lined paper / PP bag



PAC-LV

Low Viscosity Polyanionic Cellulose

Form: Powder

Item	Acceptance Criteria
GENERAL STANDARD	
Appearance	White / off-white free-flowing powder
Solubility	Water soluble
Moisture, %	≤ 10
API filtrate volume (ambient temp.), mL / 30 min	≤ 9
Apparent viscosity (ambient temp.), mPa·s	≤ 13
API filtrate volume (120 °C / 16 h aged), mL / 30 min	≤ 11
Apparent viscosity (120 °C / 16 h aged), mPa·s	≤ 6
SYSTEM / PERFORMANCE STANDARD	
<i>Formula: 5 % KCl + 10 % NaCl + 8 % CONA + 1 % PAC-LV</i>	
AV, mPa·s (before roll)	4 - 10
API filtrate, mL/30 min (before roll)	≤ 25
AV, mPa·s (120 °C / 16 h aged)	3 - 10
API filtrate, mL/30 min (120 °C / 16 h aged)	≤ 15



TYPICAL APPLICATION

Filtration-control polymer with minimal viscosity contribution — controls API filtrate where additional rheology is not wanted.



PACKAGING

25 kg PE-lined paper / PP bag



XCD

Xanthan Gum (Drilling Grade)

Form: Powder

Item	Acceptance Criteria
Appearance	Cream / off-white powder
Starch, guar or their derivatives	Absent
Moisture, %	≤ 13
Particles < 425 µm (40 mesh), %	≥ 95
Particles < 75 µm (200 mesh), %	≤ 50
Rotational viscometer @ 300 r/min	≥ 55
Rotational viscometer @ 6 r/min	≥ 18
Rotational viscometer @ 3 r/min	≥ 16
Brookfield LV viscosity @ 1.5 r/min, cP	≥ 1950



TYPICAL APPLICATION

Biopolymer viscosifier delivering strong low-shear rheology and suspension of cuttings and weighting material in fresh and saline systems.



PACKAGING

25 kg PE-lined paper / PP bag



YF-FLC

Modified Starch (Filtrate Reducer)

Form: Powder

Item	Acceptance Criteria
GENERAL STANDARD	
Appearance	Free-flowing white / off-white powder
Moisture, %	≤ 10
Fineness (60 mesh / 250 µm screen), %	≥ 90
API filtrate, mL / 30 min (4 % brine + additive)	≤ 10
Apparent viscosity, mPa·s (4 % brine + additive)	≤ 9
API filtrate, mL / 30 min (saturated saline + additive)	≤ 10
Apparent viscosity, mPa·s (saturated saline + additive)	≤ 10
SYSTEM / PERFORMANCE STANDARD	
<i>Formula: 0.4 % NaOH + 0.3 % Na₂CO₃ + 25 % NaCl + 8 % KCl + 4 % YF-FLC, weighted to 2.30 g/cm³ (Barite only)</i>	
Density, g/cm ³	2.30
AV, mPa·s (before / after roll)	45 - 55
PV, mPa·s (before / after roll)	35 - 45
YP, Pa	< 10
Φ6 / Φ3	4-8 / 3-6
Gel 10 s / 10 min, Pa/Pa	2-4 / 3-6
API filtrate, mL / 30 min	< 3
pH	> 7
Mud cake thickness, mm	≤ 2
Top / bottom density @ 2.30 g/cm ³ , 24 h static	≥ 2.29 / ≤ 2.31



TYPICAL APPLICATION

Modified-starch filtrate reducer for fresh-water, brine and saturated-salt systems, including high-density weighted muds.



PACKAGING

25 kg PE-lined paper bag

Note: For the weighted system test, do not exceed Barite density of 4.4 g/cm³.



RS-1

Salt Resisting Filtrate Reducer

Form: Powder / Granular

Item	Acceptance Criteria
Appearance	Free-flowing powder / granules, metalignitious
Moisture, %	≤ 15.0
AV - Brine base mud + 15 g/L additive, mPa·s	≤ 10.0
AV - Compound brine base mud + 15 g/L additive, mPa·s	≤ 10.0
PV - Brine base mud + 15 g/L additive, mPa·s	≥ 2.0
PV - Compound brine base mud + 15 g/L additive, mPa·s	≥ 2.0
API filtrate - Brine base mud + 15 g/L additive, mL / 30 min	≤ 20.0
API filtrate - Compound brine base mud + 15 g/L additive, mL / 30 min	≤ 22.0



TYPICAL APPLICATION

Lignitic filtrate reducer maintaining fluid-loss control in brine and compound-brine mud systems.



PACKAGING

25 kg PE-lined bag



Caustic Soda (NaOH) & Soda Ash (Na₂CO₃)

Caustic soda & soda ash - pH / alkalinity control

Form: Flakes / Pearls / Powder

Item	Acceptance Criteria
GENERAL STANDARD	
Caustic Soda - Appearance	White flakes / pearls
Caustic Soda - NaOH content, %	≥ 96
Caustic Soda - Na ₂ CO ₃ content, %	≤ 2.5
Caustic Soda - NaCl content, %	≤ 0.05
Caustic Soda - Fe ₂ O ₃ , mg/kg	≤ 30
Soda Ash - Appearance	White crystalline powder / fine particles
Soda Ash - Total alkali (as Na ₂ CO ₃ , wet basis), %	≥ 98
Soda Ash - NaCl content, %	≤ 0.7
Soda Ash - Matter insoluble in water, %	≤ 0.15
Soda Ash - Particles passing 80 mesh (180 µm), %	≤ 10
SYSTEM / PERFORMANCE STANDARD	
<i>Formula: pH check standard</i>	
Distilled water + 0.2 % NaOH sample - pH	≥ 9
Distilled water + 0.3 % NaOH sample - pH	≥ 10



TYPICAL APPLICATION

pH and alkalinity control for drilling fluids; soda ash also treats out calcium hardness in make-up water and cement contamination.



PACKAGING

25 kg PE-lined PP bag

Note: Caustic soda is corrosive - use appropriate PPE during handling and mixing.



Citric Acid Anhydrous (C₆H₈O₇)

Citric acid (anhydrous) - iron control / chelant

Form: Crystal / Powder

Item	Acceptance Criteria
Chemical formula	C ₆ H ₈ O ₇
Molecular weight	192.13
Appearance	Colourless or white crystal / powder
Identification & solubility	Pass the test
Clarity & colour of solution	Pass the test
Assay, %	99.5 - 100.5
Moisture, %	≤ 0.5
Sulphated ash, %	≤ 0.05
Sulphate, ppm	≤ 20
Oxalate, ppm	≤ 20
Calcium, ppm	≤ 20
Heavy metals (as Pb), ppm	≤ 1
Chloride, ppm	≤ 5
Aluminium, ppm	≤ 0.2
Arsenic, ppm	≤ 1
Mercury, ppm	≤ 0.1
Lead, ppm	≤ 0.5
Mesh size (selectable)	10-40 / 30-100 / 50-100 / 60-120



TYPICAL APPLICATION

Iron-control and chelating agent; used to reduce pH and treat cement contamination in drilling and workover fluids.



PACKAGING

25 kg PE-lined paper bag (waterproof membrane)



EP-LUBE

Extreme Pressure Lubricant (Non-Blooming)

Form: Liquid

Item	Acceptance Criteria
GENERAL STANDARD	
Appearance	Amber / dark amber liquid
Apparent viscosity increase to base mud, mPa·s	≤ 9
Filtration loss change, mL	≤ 0
Lubrication coefficient reduction @ room temperature, %	≥ 70
Lubrication coefficient reduction after 220 °C / 16 h hot rolling, %	≥ 55
SYSTEM / PERFORMANCE STANDARD	
Formula: 0.3 % NaOH + 0.3 % Na ₂ CO ₃ + 3 % YF-FLC + 0.3 % VIS + 5 % KCl + 10 % NaCl + 8 % CONA (base mud) + 3 % EP-LUBE Cl ⁻ content: 90 000 - 100 000 ppm	
Base mud AV, mPa·s (before roll)	15 - 20
Base mud PV, mPa·s (before roll)	10 - 15
Base mud YP, Pa (before roll)	5 - 10
Viscosity factor (before roll)	≤ 0.5
AV increase after 120 °C / 16 h roll, %	≤ 60
PV increase after 120 °C / 16 h roll, %	≤ 60
YP increase after 120 °C / 16 h roll, %	≤ 60
Viscosity factor reduction after roll, %	≥ 50



TYPICAL APPLICATION

Reduces torque and drag in deviated and extended-reach wells; non-blooming and compatible with water-based mud systems.



PACKAGING

200 L (≈ 208 L / 55 gal) steel drum; also 1 m³ (1000 L) IBC



PIPE-LAX (W)

Spotting Fluid for Stuck Pipe (Water-Based)

Form: Liquid

Item	Acceptance Criteria
Appearance	Dark brown, oily liquid
Specific gravity @ 20 °C	0.85 - 0.92
pH (1 % aqueous solution)	6.5 - 7.5
Flash point (closed cup), °C	> 60
Pour point, °C	≤ -5
Solubility in water	Insoluble (forms stable dispersion when mixed)



TYPICAL APPLICATION

Spotting fluid placed across the stuck interval to break down the filter cake and free differentially stuck pipe.



PACKAGING

200 L (≈ 208 L / 55 gal) steel drum; also 1 m³ (1000 L) IBC



LCM

Lost Circulation Materials

Form: Powder / Granular

Item	Acceptance Criteria
SZDL - PLUGGING AGENT WHILE DRILLING	
Appearance	Powder
Moisture, %	≤ 8.0
Residue on 0.15 mm (100 mesh) sieve, %	≤ 10
Filtrate volume on sand bed, mL / 30 min	≤ 60
SEAL - SINGLE PLUGGING AGENT	
Appearance	Grayish-yellow powder
Water-insoluble content, %	≤ 10.0
pH value	6 - 7
Moisture, %	≤ 10
API filtrate volume (base mud), mL / 30 min	≤ 20
API filtrate volume (base mud + 4 % sample), mL / 30 min	≤ 18
Apparent viscosity (base mud), mPa·s	≤ 10
Apparent viscosity (base mud + 4 % sample), mPa·s	≤ 14
Plugging capacity (30 min), mL	≤ 35
Density (base mud), g/cm ³	1.01 - 1.03
Density (base mud + 4 % sample), g/cm ³	1.01 - 1.04
PF-BLN 1 - LCM MULTIPLE AGENT	
Appearance	Brown / brown granular
Moisture, %	≤ 8.0
Particles between 10 - 40 mesh (425 µm - 2 mm), %	≥ 80.0
Particles passing 40 mesh (< 425 µm), %	≤ 10.0
PF-BLN 2 - LCM MULTIPLE AGENT	
Appearance	Brown / brown granular
Moisture, %	≤ 8.0
Particles between 6 - 10 mesh (2 mm - 3.35 mm), %	≥ 75.0
Particles passing 10 mesh (< 2 mm), %	≤ 15.0



PACKAGING

25 kg PP bag

Note: Material shall meet the General Standard and the properties' requirements of the mud system. Validity period: 3 years; material produced within last 6 months.



Oil Well Cement

API 10A Class G (HSR)

Form: Powder

Item	Acceptance Criteria
Standard	API 10A / ISO 10426-1 - Class G, HSR
Appearance	Gray powder
Chemical - MgO, %	≤ 6.0
Chemical - SO ₃ , %	≤ 3.0
Chemical - Loss on ignition, %	≤ 3.0
Chemical - Insoluble residue, %	≤ 0.75
Chemical - Total alkali (Na ₂ O eq.), %	≤ 0.75
Chemical - C ₃ S, %	48 - 65
Chemical - C ₃ A, %	≤ 3.0
Chemical - 2 C ₃ A + C ₄ AF, %	≤ 24
Physical - Fineness (Blaine), m ² /kg	≥ 280 (typical)
Physical - Free fluid, mL / 250 mL slurry	≤ 5.9
Performance - Compressive strength @ 8 h / 38 °C	≥ 2.1 MPa (≥ 300 psi)
Performance - Compressive strength @ 8 h / 60 °C	≥ 10.3 MPa (≥ 1500 psi)
Performance - Thickening time @ Schedule 5g, min	90 - 120
Performance - Max consistency 15 - 30 min, Bc	≤ 30



TYPICAL APPLICATION

For primary and remedial well cementing across a wide range of downhole conditions; HSR grade suited to sulphate-bearing formations.



PACKAGING

Bulk; also 1.5 MT / 1 MT big bag (FIBC); 50 kg paper bag on request



Microsilica (Densified Silica Fume)

Densified silica fume - cement strength / permeability reducer

Form: Powder

Item	Acceptance Criteria
Appearance	Gray powder
Bulk density (densified), kg/m ³	550 - 650
SiO ₂ (silicon dioxide), %	≥ 92
Fe ₂ O ₃ (iron oxide), %	≤ 1
Al ₂ O ₃ (aluminium oxide), %	≤ 1
CaO (calcium oxide), %	≤ 0.5
MgO (magnesium oxide), %	≤ 0.5
K ₂ O (potassium oxide), %	≤ 1
Na ₂ O (sodium oxide), %	≤ 0.4
Loss on ignition, %	≤ 4
Specific surface (BET), m ² /g	15 - 30



TYPICAL APPLICATION

Improves slurry stability and compressive strength and reduces set-cement permeability; used in lightweight and gas-migration-control designs.



PACKAGING

0.5 MT (500 kg) or 0.8 MT (800 kg) big bag (FIBC)



Cementing Additive

Fluid Loss & Retarder (AMPS-Based Copolymer)

Form: Powder

Item	Acceptance Criteria
Appearance	White / cream free-flowing powder
Solubility	Water soluble
Moisture, %	≤ 8
Bulk density, g/cm ³	0.55 - 0.85
Residue on 80 mesh (180 µm) sieve, %	≤ 5
API fluid loss (Class G slurry @ BHCT), mL / 30 min	≤ 50
Free fluid in slurry, mL / 250 mL	≤ 2
Compatibility with Class G cement	Pass
Effective temperature range, °C	30 - 180
Recommended dosage, % BWOC	0.4 - 1.2



TYPICAL APPLICATION

AMPS-based copolymer providing fluid-loss control with a retarding effect in Class G slurries; effective from 30 to 180 °C.



PACKAGING

25 kg PE-lined paper bag



Expander Additive

Magnesium Oxide Based

Form: Powder

Item	Acceptance Criteria
Appearance	Light brown / off-white powder
MgO content, %	≥ 90
Free CaO, %	≤ 1
Loss on ignition, %	≤ 5
Specific gravity, g/cm ³	≥ 3.4
Particles passing 200 mesh (75 µm), %	≥ 90
Cement linear expansion @ 24 h / 65 °C, %	≥ 0.5
Compatibility with Class G cement & fluid loss / retarder	Pass
Recommended dosage, % BWOC	2 - 8



TYPICAL APPLICATION

MgO-based expanding agent that offsets shrinkage and improves cement bonding to casing and formation.



PACKAGING

25 kg PE-lined paper bag

CONTACT US

Worldwide supply of oilfield chemicals — from qualified international manufacturers to the rig site.



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AL NABRAS AL AALI · General Contracting and General Trading and Chemical Trading LTD.

شركة النبراس العالي للمقاولات العامة والتجارة العامة وتجارة المواد الكيماوية محدودة المسؤولية