

**HACHEMICAL MINE WORLD CO.**

**DRILLING MUD FLUID PRODUCTS**

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UNITED ARAB EMIRATE , SAUDI ARABIA , MEXICO , VENEZUELLA , UNITED STATE , CANADA , IRAN

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## ABOUT US

The **Chemical Mine World** company has started its activity in finding and drilling of Gilsonite Mines. Then it could complete the work by producing Gilsonite with the cooperation of great experts. This company also expanded its activity to presenting mineral materials and Chemical materials with raising the quality of the products, it could participate effectively in developing chemical and mineral materials. Furthermore, getting its short- period goals, the company has recently taken into action to make and prepare drilling fluid Mud materials that, with the trust in **God**, could be successful in its way and now, has supported a great part of requirements of great **Iran** and the world.

**Iran** (located in southwest of Asia), geographically is located on routes of air corridors, communication road, railway grids and oil / gas conveyance lines and has immediate access to the region's market; a market with population over 300 million. This geostrategic location not only increases **Iran's** importance and role but also gives access to fast growing and emerging markets in **Middle East** and **Central Asia**.

We with reliable qualities, present you the Gilsonite Products for chemical and Drilling Fluid and Mud also Asphalt and Bitumen in road construction.

### Sister Co of Chemical Mine World Co.

Producer and Providing Of Mud and Cement Materials Of Oil and Gas Well Drilling. also produce several items of Mud and cement materials in oil and gas wells drilling industry in different parts of the country based on most recent version of international standards (A.P.I). In this line, the company succeeded in producing and offering all materials related to Drilling mud and Cement.

## **Manufacturing Operations**

CMWC manufactures and supplies a diverse range of Lost Circulation Materials (LCM), drilling lignite and salts, as well as mud conditioners, polymers and additives.

CMC facility has been conferred the prestigious API Certification (API Spec.Q1) in Quality Management program.

The facility has a capacity to produce over 200,000 Metric tons/Year of different powder products in three separate production trains.

Operations are continuous and automated, with over 40 plant personnel working in two daily shifts. The plant has large designated areas to hold raw materials as well as finished products.

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## Welcome to CHEMICAL MINE WORLD CO.!

CMWC is a leading producer and supplier of custom-processed materials and chemicals essential to drilling and Asphalt operations.

For more information please review the following sections:

- Quality Control:** Our employees are focused on quality and continually look for new and innovative solutions to customers' needs in the global market. Each product is subject to intense quality control testing using checks and double-checks to assure that each material meets our rigid specifications.
- Products:** CMWC offers consistent quality drilling fluids for oil and gas exploration also Mineral materials and road construction. We manufacture to API specifications and maintain ISO standards right through the supply chain.

### **CHEMICAL MINE WORLD CO.**

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WEB-SITES:

DRILLING MUD FLUID : <http://drillingmud.org>

ASPHALT AND BITUMEN : <http://naturalasphalt.org>

GILSONITE PRODUCTS : <http://gilsonite.org>

MINERAL & CHEMICAL PRODUCTS: <http://biz-chemical.com>

Direct Manager. **Mr Mehdi Tavajjoh**

Sale Manager. **Mr Majid Mohammadian**

Commercial Manager. **Engines Ms Parisa fathollahi , Ms Elaheh & Elham Mohammadi , Ms Farzaneh Sarbaz**

Technical & site Manager. **Engines Mr Hamed Tavajjoh , Mr Saber Valizadeh**

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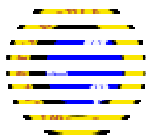
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## *Gilsonite*

Gilsonite or Natural Bitumen is a hard petroleum asphalt that is often called natural asphalt, asphaltine, or asphaltom and is soluble in petroleum asphalt solvents. Increasingly Gilsonite is used in hardening oil products and is easily brittle and convertible to powder form.

**We can provide Gilsonite ( natural bitumen ) in 5 types that their analysis can be observed in below:**

Chemical Mine World Company has provided high-quality Gilsonite ( natural bitumen) and Gilsonite products and service since 1970 in Iran at Asia. Gilsonite, Natural Bitumen or natural asphalt is a non-hazardous, naturally occurring hydrocarbon resin that is similar in appearance to coal or hard asphalt.

Iran Gilsonite is the other name for the mineral known as bitumen which is found in mines of Kermanshah and Gilanegharb of Iran and also in US. This unique mineral is used primarily in dark-colored printing inks and paints, oil well drilling muds and cements, asphalt modifiers, foundry sands additives and a wide variety of chemical products.

### The use of Gilsonite in Oil

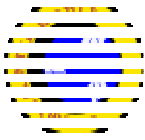
Iran Gilsonite is used in drilling mud fluids and oil well cementing. The addition of specially-treated Gilsonite to water-based drilling fluids helps minimize hole washout by stabilizing troublesome shales, and seals off highly permeable sands while reducing torque and drag. The addition of Gilsonite to oil well cements reduces slurry weight without loss of compressive strength and acts as an effective bridging and plugging agent to seal fractures in weak formations while cementing.

### The use of Gilsonite in Asphalt and Road Paving

Iran Gilsonite is used as a performance-enhancing agent for asphalt mixes. Gilsonite can partially or totally replace, or complement, the use of SBS polymers in modified asphalts at a fraction of the cost. Gilsonite-modified asphalts have higher stability, reduced deformation, reduced temperature susceptibility and increased resistance to water stripping than non-modified asphalts. Gilsonite is also used to make both solvent-based and emulsion pavement sealers with superior appearance and weathering properties.

### The use of Gilsonite in Foundry

Iran Gilsonite is combined with coal and other ingredients as an additive in foundry sands to insure the quality of the molded part.



***Gilsonite Products***  
***FLC***  
***Fluid loss controller***

*Iran Gilsonite ch108*    *Iran Gilsonite ch109*    *Iran Gilsonite ch110*  
*Iran Gilsonite ch111*    *Iran Gilsonite ch113*

**1- Gilsonite : API Grade "HM" 'High Melting Point'**

**Powder: +200mesh**

**packaging: 50 Lbs , Paletized, Shrunked, Belts**

**2- FLC " Fluid Loss Controller", Oil Based Mud, Water Based Mud**

**Powder: +200mesh**

**, HM " High Melting Point "**

**Grade: CH-109 GR**

**3- FLC " Fluid Loss Controller", Oil Based Mud, Water Based Mud**

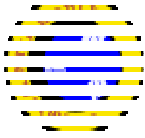
**Powder: +200mesh**

**HT "high temperature " , HM " High Melting Point" ,**

**HV" High Viscosity"**

**Grade: CH- 109 GW**

<b>Chem.Anal.</b>	<b>RESULT</b>	
Ash content	10 %	( wt % )
Moisture content	0.5- 1.5	( wt % )
Volatile mater	60- 65	( wt % )
Fixed carbon	25- 35	
Solubility in cs2	85- 90	( wt % )
Solubility in tce	60- 70	( wt % )
Normal Heptan in so	60- 70	( wt % )
Specific Gravity ( 25 c)	1.1- 1.2	
Softening point	165-230	
Penetration ( 25 c)	0- 2	
Carbon	75- 82	( wt % )
Hydrogen	6- 9	( wt % )
Nitrogen	0.8- 1.5	( wt % )
Sulphur	3- 6	( wt % )
Oxygen	1.5- 2.5	( wt % )
Colour	Black and dark Brown in Powder	



## Bentonite

### **BENTONITE ( GRADE OCMA 13 A - Section 6)**

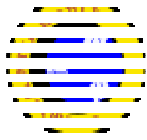
#### **BENTONITE SPECIFICATION OCMA 13 A - SECTION 6**

- VISCOMETER DIAL READING AT 600 rpm	30 MIN
- YIELD POINT / PLASTIC VISCOSITY RATIO	6 PERCENT MAX
- FILTRATE VOLUME	15.0 CM <sup>3</sup> MAX
- RESIDUE GREATER THAN 75 MICROMETERS	2.5 WT PERCENT , MAX
- MOISTURE	13.0 WT PERCENT MAX
- PACKING : 25 KG /PAPER SACKS , 1 MT BIG BAG AND BULK .	
- CONSUMPTION : DRILLING MUD .	

### **BENTONITE ( GRADE OCMA 13 A - Section 4)**

#### **BENTONITE SPECIFICATION API 13 A – SECTION 4**

- VISCOMETER DIAL READING AT 600 rpm	30 MIN
- YIELD POINT / PLASTIC VISCOSITY RATIO	3 MAX
- FILTRATE VOLUME	15.0 CM <sup>3</sup> MAX
- RESIDUE GREATER THAN 75 MICROMETERS	4.0 WT PERCENT , MAX
- MOISTURE	10.0WT PERCENT MAX
- PACKING : 25 KG /PAPER SACKS , 1 MT BIG BAG	
- CONSUMPTION : AS VISCOSIFIES IN OIL AND GAS WELL DRILLING	



***Barite***

**BARITE GRADE (API 13 A – SECTION 2)**

**BARITE SPECIFICATION API 13 A – SECTION 2**

- DENSITY	4.20 gr/cm <sup>3</sup> min
- WATER SOLUBLE ALKALINE EARTH METALS AS CALCIUM	250 mg/kg , MAX
- RESIDUE GREATER THAN 75 MICROMETERS	3.0 WT PERCENT , MAX
- PARTICLES LESS THAN 6 MICROMETERS IN EQUIVALENT SPHERICAL DIAMETER	30 WT PERCENT , MAX
- PURITY :	84 PERCENT MIN
- PACKING : 25 KG/PAPER SACKS , 1.5 MT BIG BAG OR BULK	
- CONSUMPTION : AS WEIGHTING AGENT IN OIL & GAS WELL DRILLING	

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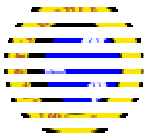
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CALCIUM CARBONATE

<b>CALCIUM CARBONATE SPECIFICATION</b>	
- PURITY	98 PERCENT , MIN
- DENSITY	2.70 gr/cm <sup>3</sup>
- APPEARANCE	WHITE CRYSTALLINE
- INSOLUBLE IN ACID	2 PERCENT , MAX
- SIZE	45 , 38,20 MICRON
- PACKING : 25 KG /PAPER SACKS , 1 MT BIG BAG	
- CONSUMPTION : AS WEIGHTING AGENT IN OIL & GAS WELL DRILLING , PAINT, PLASTIC , RUBBER INDUSTRIES	

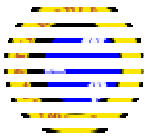
**IRAN LIMSTONE**

*In here is a kind of Limstone in Iran( Asia)*

<b>Iran limestone (Grade P.S) CHEMICAL ANALYSIS REPORT LIMSTONE</b>	
DENSITY	2.75 g/qcm
PURITY	99 %
PASSING THROUGH 100 MESH	100 %
RESIDUE ON 200 MESH	0.2 %
RESIDUE ON 325 MESH	5 %
MOISTURE	0.2 % MAX
SLOUBLE ON 15 % HCL	99 %

PACKING : AS ORDER, 25 Kg. 4 LAYER KRAFT PAPER BAGS  
APPLICATION : OIL MUD DRILLING MATERIAL





CHEMICAL MINE WORLD CO.

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**IRON OXIDE ( HEMATITE )**

<b>IRON OXIDE ( HEMATITE ) SPECIFICATION</b>	
- Fe	55- 65 PERCENT
- SIO2	6 PERCENT MAX
- Fe2O3	82 PERCENT MIN
- DENSITY	4.65 gr/cm <sup>3</sup> MIN
- RESIDUE GREATER THAN 75 MICROMETERS	3 WT PERCENT , MAX
- RESIDUE GREATER THAN 45 MICROMETERS	15 WT PERCENT , MAX
- MAGNETIC ABSORPTION	3 PERCENT , MAX
- PACKING : 25 KG/PAPER SACKS , 1 MT BIG BAG	
- CONSUMPTION : HEAVY MATERIAL IN OIL & GAS DRILLING MUD.	

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**( DME F.W. )**

**Description and Application :**

DME is an anionic surfactant and wetting agent mainly used in preparing oil base pipe-freeing agent used in water base drilling fluids for fresh water. It increases preferential wetting solids, improves thermal and emulsion stability and assures consistent rheological and filtration characteristics.

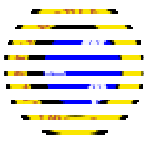
**Specification :**

Appearance	: Viscose liquid and honey color
Density	: 0.98 g/cm <sup>3</sup>
PH	: 7 to 8
Insoluble in water	: Zero
Solubility	: Exactly is soluble in water
Dosage	: % 1 in each percent of gasoline and water

**Package and Storage :**

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It is better to be kept and stored under the roof.



**( DME Salt Water )**

**Description and Application :**

DME is an anionic surfactant and wetting agent mainly used in preparing oil base pipe-freeing agent used in water base drilling fluids for sea water.

It increases preferential wetting solids, improves thermal and emulsion stability and assures consistent rheological and filtration characteristics.

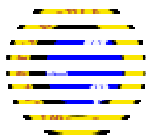
**Specification :**

Appearance	: Viscose liquid and honey color
Density	: 0.95 g/cm <sup>3</sup>
PH	: 7 to 8
Insoluble in water	: Zero
Solubility	: Exactly is soluble in water
Dosage	: % 1 in variety percent of gasoline and water

**Package and Storage :**

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It is better to be kept and stored under the roof.



**( Primary Emulsifier )**

**Description and Application :**

OB-Emul-Pr is a primary emulsifier of oil base drilling fluid. It is a nonionic surfactant used to reduce inter-particle force and provide easier control of rheological and filtration properties of the mud.

It should be used as a primary emulsifier with Nar-114 as a secondary emulsifier for better characteristics and results.

**Specification :**

Appearance	: Viscose and honey color
Density	: 0.9 g/cm <sup>3</sup>
PH	: 7
Fire point	: Above 200 °F
Soluble	: Exactly is soluble in gasoline

**Package and Storage :**

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It is better to be kept and stored under the roof.



## *(Secondary Emulsifier)*

### *Description and Application :*

OB-Emul-Sc is a secondary emulsifier of oil base drilling fluid. It is an organic surfactant used to increase the Electrical Stability (ES) and control the rheological and filtration properties of the mud.

It should be used as a secondary emulsifier with Nar-113 as a primary emulsifier for better characteristics and results.

### *Specification :*

Appearance	: Oiling liquid and dark brown color
Density	: 1 g/cm <sup>3</sup>
PH	: 6 to 7
Fire point	: Above 200 °F
Soluble	: Exactly disperse in gasoline

### *Package and Storage :*

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It is better to be kept and stored under the roof .



**(Mud Defoamer)**

**Description and Application :**

It is a blend of high molecular weight alcohol and modified fatty acids derivatives. It is oil soluble and water dispersible.

The concentration for usage should be determined by lab tests. Over addition may cause an opposite effect.

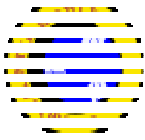
**Specification :**

Appearance	: light brown liquid
Nature	: Oiling base
Solubility	: Exactly soluble in gasoline
Density	: 0.85 g/cm <sup>3</sup>

**Package and Storage :**

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It must be kept above 14° C and under the roof.



## **EMULSIFIER**

### Product Description

It is drilling mud emulsifier for salt water and used to produce oil in water emulsion.

### Application

- Surfactant.
- Emulsifier

### Typical Physical Properties

<b>MUD COMPOSITION</b>			
Oil / Water Ratio	60/40	60/40	70/30
DME (S.W) %	1	1	1
CMC H.V. (lb/bbl)	-	0.5	-
<b>TEST RESULTS</b>			
Apparent Viscosity cPs	20	50	70
Yield point lb/100 ft <sup>2</sup>	20	50	70
Gel Strength 10 sec/10 min	3/4	6/9	12/24
Stability of emulsion after 24 hours	Ok	Ok	Ok
Stability after rolling at 180 °F	Ok	Ok	Ok
pH	7±	7±	7±
Appearance of samples	Single-phase and Non limpid		

### Recommended Treatment

Add 1-2 percent by volume to mud system.

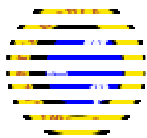
### Packaging

55 US gallon drums.

Marked on: Name of Manufacturer, Batch No. and Production date.

### Safety Handling

- Use goggles and gloves during usage.
- In case of contact, wash with water and soap.
- Keep in sheltered place.



## *Drilling Mud Emulsifier ( D.M.E )*

**D.M.E** is a mixture of special emulsifying agent which when used in drilling mud, gives stable emulsion of oil in water. Water used for drilling mud may be fresh , potable , salty or sea water. It is an emulsifier which is applied to water base drilling mud when other convectional emulsifiers fails to emulsify diesel fuel in mud texture. It provides a uniform, stable and durable emulsion in all tough conditions of oil well drilling. Recommended concentration for usage is 0.45 - 0.6 gal/bbl of diesel fuel but pilot test should be done to obtain optimum value without any undesirable consequences.

**Appearance: Homogeneous mixture**

**Color: Gray**

**Density ( gr/cc) at 20°C : 1.03 ± 0.03**

**PH at 20°C: 7 ± 1**

**Viscosity ( c.st) at 20°C: 3000 ± 5000**

**Solubility: Completely dispersible in water**

**Nature: Nonionic**

**Notice: Above specifications can be adjusted as per customer's requests.**

### **Handling and storage**

D.M.E is a stable formulation in normal conditions and ambient condition. However it should be stored in roofed area and avoid any direct sunlight or frigid weather. This product is normally stable for more than 1 year.

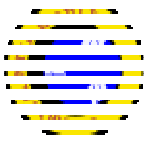
### **Safety considerations**

D.M.E formulated from nontoxic chemicals, and has no harm to skin, but in case of contact with eyes, wash with plenty of water and have physician's advice.

### **Packaging**

D.M.E is packed in 220 lit plastic drums . Used no hook when handling plastic drums.





## CMC L.V.

### Description and Application :

CMC L.V., a low molecular weight, pure grade Sodium Carboxymethyl Cellulose is a high quality, water soluble polymer designed to control fluid loss and increase viscosity.

CMC L.V. controls fluid loss in fresh and salt water mud.

### Specification :

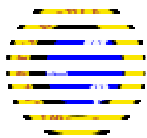
Appearance	: Light creamy powder
Purity (Dry Basis)	: 65% Min
Bulk Density	: 0.4-0.7 (g/cm <sup>3</sup> )
Viscosity (2%Solution)	: 40-60 cps
Degree of Substitution	: 0.8-0.9
Moisture	: 5% Max
PH (1% solution)	: 7-9
Particle Size (mm)	: 0.5 mm

### Package and Storage :

In two-layer anti-moisture bags (25 kg ).

Storage life : 6 Months

Storage condition : It must be kept and stored under the roof.



## CMC H.V.

### Description and Application :

CMC H.V. ,a high molecular weight ,pure grade Sodium Carboxymethyl Cellulose is a high quality ,water soluble polymer designed to control fluid loss and increase viscosity and generally used in low viscosity ,low solids or low weight mud. CMC H.V. controls fluid loss in fresh and salt water mud.

### Specification :

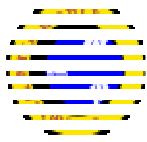
Appearance	: Light creamy powder
Purity	: 70% min
Density	: 0.6 (g/cm <sup>3</sup> )
Degree of Substitution	: 0.65-0.75
Moisture	: 5% Max
Viscosity (viscometer RVF)	: 5000 min
PH (2% solution)	: 7-8
Particle Size	: 0.5 mm

### Package and Storage :

In two-layer anti-moisture bags (25 kg).

Storage life : 6 Months

Storage condition : It must be kept and stored under the roof.



## **PAC L.V.**

### **Description and Application :**

PAC L.V. is polyanionic cellulose is a high quality; water soluble polymer can effectively reduce mud filtration without increasing the mud viscosity in fresh and salt water mud.

### **Specification :**

Appearance	: White Powder
Purity (Dry Basis)	: 99.5% min
Bulk Density	: 0.4-0.7 (g/cm <sup>3</sup> )
Viscosity (2%Solution)	: 30-50 cps at 25 °c
Degree of Substitution	: 1.0-1.1
Moisture	: 10% Max
PH (1% solution)	: 7-9
Fe	: 50 PPM Max
Particle Size	: 0.75 mm

### **Package and Storage :**

In two-layer anti-moisture bags (25 kg).

Storage life : 6 Months

Storage condition : It must be kept and stored under the roof.



## **PAC H.V.**

### **Description and Application :**

PAC H.V. is polyanionic cellulose is a high quality; water soluble polymer can effectively reduce mud filtration without increasing the mud viscosity in fresh and salt water mud.

### **Specification :**

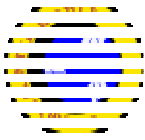
Appearance	: White Powder
Purity (Dry Basis)	: 99.5% min
Bulk Density	: 0.4-0.7 (g/cm <sup>3</sup> )
Viscosity (1%Solution)	: 400-1000 cps at 25 deg
Degree of Substitution	: 1.0-1.1
Moisture	: 10% Max
PH (1% solution)	: 7-9
Fe	: 50 Ppm Max
Particle Size	: 0.75 mm

### **Package and Storage :**

In two-layer anti-moisture bags (25 kg).

Storage life : 6 Months

Storage condition : It must be kept and stored under the roof.



## *Cement Friction Reducer*

### *Description and Application:*

It is a powder used to improve cement properties such as: mixiblity, pumping, fluid loss, and slurry rheology.

This product reduces frictional pressure and viscosity of the slurry so lower pumping force is required.

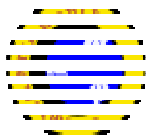
### *Specification:*

Appearance : light brown Powder  
Usage Temperature : > 80 °F

### *Package and Storage:*

In Multi-layer water-resistant paper bags (25 kg ).

Storage life : 6 Months  
Storage condition : It must be kept and stored under the roof.



## **CEMENT DEFOAMER**

### **Description and Application:**

Antifoaming agent is used to minimize foaming and air entrainments that are caused by addition of surfactant, salt & etc. in cement composition and to achieve an easier measurement of true slurry density.

Cement Antifoam is evenly dispersible in solution and also stabilizes the weight in fresh and salt slip and it is compatible with all cement additives.

### **Specification:**

Appearance	: Clear amber liquid
PH	: 7
Solubility	: Oil soluble and water dispersible
Specific Gravity	: 0.9 g / cm <sup>3</sup>

### **Package and Storage :**

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It is better to be kept and stored under the roof.

### **Health and safety data :**

The product may cause skin eye irritation, avoid contact with eye and skin by wearing goggles and gloves. For skin contact wash with water and soap while eye and contact flush eye well with water for 15 minutes and call for medical attention .



## *Cement Retarder L.T.*

### *Description and Application:*

It is a powder that inhibits hydration and delays setting of cement and also decreases slurry viscosity. It is consumed in deep and hot wells which require long working time without effect on compressive strength. It can be used in both fresh and salt water.

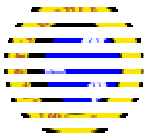
### *Specification :*

Appearance : White Powder  
Usage Temperature : 80-180 °F

### *Package and Storage :*

In 25 Kg two-layer water-resistant Bag.

Storage life : 6 Months  
Storage condition : It must be kept and stored under the roof



## *Cement Retarder H.T.*

### *Description and Application:*

It is a powder that inhibits hydration and delays setting of cement and also decreases slurry viscosity. It is consumed in deep and hot wells which require long working time without effect on compressive strength. It can be used in both fresh and salt water.

### *Specification:*

Appearance : light brown Powder  
Usage Temperature : 180-350 °F

### *Package and Storage:*

In 25 Kg two-layer water-resistant Bag.

Storage life : 6 Months  
Storage condition : It must be kept and stored under the roof





## *Pipe Lax*

### *Description and Application :*

This product is a liquid used for salvage of bit in well and pipe sticking at rig site , should be added into diesel oil and blended .Then it should be pumped to the right position where the pipe is stuck.

The recommended dosage is 3 PPB.

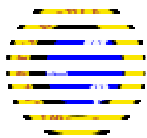
### *Specification :*

Appearance	: Viscose and honey color
Nature	: Oiling base
Solubility	: Exactly soluble in gasoline
Density	: 0.9 g / cm <sup>3</sup>
Fire point	: Above 200° F

### *Package and Storage :*

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It is better to be kept and stored under the roof.



## *Bit Lub*

### *Description and Application :*

This product is a blended liquid mixture of few aliphatic hydrocarbons with some surfactants .It is used as oil based lubricant for all kind of drilling fluids. It effectively improves mud lubricity and greatly reduces drag and torque of drill string.

### *Specification :*

Appearance	: Viscose and dark honey color
Nature	: Oiling base
Solubility	: Exactly soluble in gasoline
Density	: 0.87 g / cm <sup>3</sup>
Viscosity	: 50 cps
Fire point	: Above 200° F

### *Package and Storage :*

In iron drums (208 liters) and each four drums on a pallet with plastic cover and strapped.

Storage life	: 6 Months
Storage condition	: It is better to be kept and stored under the roof.



## Wetting Agent

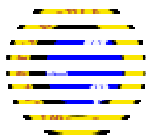
### Description and Application :

### Specification :

Appearance	: Viscose and honey color
Density	: 0.99 ( g/cm <sup>3</sup> )
PH	: 7.5 to 8
Soluble in water	: No
Fire pint	: Above 200 D.F.
Solubility	: Exactly is soluble in gasoline

### Package and Storage :

Packaged in iron drum (208 liters). Each four drums on a pallet with plastic cover and strap.



## *Magne-Set Retarder*

### *Description and Application :*

It is a compound of Boron-Lithium that delays setting time of Magne-Set slurry, without effect on compressive strength.

### *Specification :*

Appearance : White Powder  
Usage Temperature : 140-400 °F

### *Package and Storage :*

In Multi-layer water-resistant paper bags (25 kg ).

Storage life : 6 Months  
Storage condition : It must be kept and stored under the roof



## *Magne-Set Thinner*

### *Description and Application :*

It is a compound, used to reduce effective viscosity of Magne-Set Slurry without effect on compressive strength and setting time.

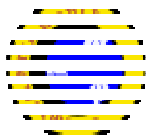
### *Specification :*

Appearance : White Powder  
Usage Temperature : 80-350 °F

### *Package and Storage :*

In Multi-layer water-resistant paper bags (25 kg ).

Storage life : 6 Months  
Storage condition : It must be kept and stored under the roof



## **Cement F.L.C High Temperature (A)**

### **Description and Application :**

It is a yellow liquid agent used in order control fluid loss in cement slurry. Fluid loss additive is produced by co-reactions of ethylene monomers. It has no detrimental effects as retardation of setting time or lowered compressive strength.

FLC A is effective in a wide range of temperature. It is applicable for salt formations and high temperature (30 - 180°C) wells.

### **Specification :**

Appearance : Light Yellow Liquid

Specific Gravity : 1.17±0.02 gr/cm<sup>3</sup>

Viscosity : 10±3 mPa.s

PH : 6.5±0.5

API Fluid Loss Volume : < 100 ml  
(77°C, 6.9 MPa, 30 min)

Compressive strength : >14 MPa  
(77°C, 20.7 MPa, 24 h)

Free Fluid : < 1.5 ml

### **Package and Storage :**

In 20 Kg barrels.

Storage life : 6 Months

Storage condition : It is better to be kept and stored under the roof

### **Health and safety data :**

The product may cause skin eye irritation, avoid contact with eye and skin by wearing goggles and gloves. For skin contact wash with water and soap while eye and contact flush eye well with water for 15 minutes and call for medical attention . Not considered to be a fire and explosion hazard.



## Cement F.L.C F.W.

### Description and Application :

It is a Powder agent used in order control fluid loss in cement slurry. FLC SW is a cellulose-based fluid loss that forms a kind of weak cross linked colloid in the slurry. It has no detrimental effects as retardation of setting time or lowered compressive strength. It has multi-functions of fluid loss control, leak protected and anti-migration. It is effective in fluids from 38 to 110 °C.

### Specification :

Appearance : Grayish White Powder  
Specific Gravity : 1.5 g/cm<sup>3</sup>  
PH : 6 - 8  
Thickening Time : 200±30 Min  
API Fluid Loss Volume : < 50 ml  
(78°C, 6.9 MPa, 30 min)  
Compressive strength : >14 MPa  
(98°C, 20.7 MPa, 24 h)

### Package and Storage :

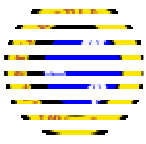
In two-layer anti-moisture bags (25 kg).

Storage life : 6 Months  
Storage condition : It is better to be kept and stored under the roof.

### Health and safety data :

Slightly poisonous. Remove to fresh air. Get medical attention for any breathing difficulty.

The product may cause skin eye irritation, avoid contact with eye and skin by wearing goggles and gloves. For skin contact wash with water and soap while eye and contact flush eye well with water for 15 minutes and call for medical attention .  
Not considered to be a fire and explosion hazard.



## *Cement F.L.C S.W.*

### *Description and Application :*

It is a Brown Powder agent used in order control fluid loss in cement slurry. FLC SW is a hydro- Sulfonated polymer that forms a kind of weak cross linked colloid in the slurry .It has no detrimental effects as retardation of setting time or lowered compressive strength. It can be used in salt-lime, alkali, salt and normal cementing well. It has multi-functions of fluid loss control, leak protected and anti migration .It is effective in fluids from 60 to 120.

### *Specification :*

Appearance : Brown Powder  
Specific Gravity :  $2.60 \pm 0.03 \text{g/cm}^3$   
PH :  $6 \pm 0.5$

API Fluid Loss Volume :  $< 100 \text{ ml}$   
(78°C, 6.9 MPa, 30 min)  
Compressive strength :  $> 14 \text{ MPa}$   
(98°C, 20.7 MPa, 24 h)

### *Package and Storage :*

In two-layer anti-moisture bags (25 kg).

Storage life : 6 Months

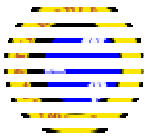
Storage condition : It is better to be kept and stored under the roof.

### *Health and safety data :*

Slightly poisonous. Remove to fresh air. Get medical attention for any breathing difficulty.

The product may cause skin eye irritation, avoid contact with eye and skin by wearing goggles and gloves. For skin contact wash with water and soap while eye and contact flush eye well with water for 15 minutes and call for medical attention . Not considered to be a fire and explosion hazard.



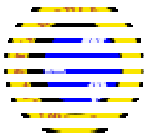


**Oil Drilling Grade Xanthan Gum**

Items	Specs
Appearance	Cream-white powder
Particle Size (mesh)	Client need
Loss On Drying (%)	≤13
Ashes (%)	≤13
Viscosity (1% KCL, cps)	>1200mpa.s
PH	6.0-8.0
Shearing Ratio	≥6.0

**Measurement**

Rate	600rpm	300rpm	200rpm	100rpm	6rpm	3rpm
Standard	≥75	≥55	≥45	≥35	≥15	≥12.5

**Chrome free Lignosulfonate**

NO	Index items	Standard value	Test Results
1	<i>Appearance</i>	<i>Yellow Brown powder</i>	<i>Meets the requirement</i>
2	PH Value	9—11	9.88
3	Dry matter	92%min	95.12
4	Moisture	7.0%max	4.86
5	Water insoluble matter	2.5% max	2.31
6	Lignosulphonate	50%min	55.80
7	Total reducing matter	4.0% max	2.1

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**SULPHINATED ASPHALT**

**Packing 50 lbs paper sacks**

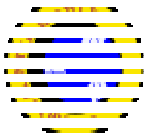
- 1) Product :- Sulphonated Asphalt
- 2) Packing :- 50 lbs paper sacks, such 40 sacks on one pallet, w/s/p, and such 20 pallets in one 20 ft container.

**Packing Jumbo Bags of 1 MT each**

- 1) Product :- Sulphonated Asphalt
- 2) Packing :- One Jumbo Bag of 1 MT, such 18 Jumbo bags on 18 pallets, in one 20 ft container.

**Common Terms and conditions**

- 4) Delivery :- As desired by your requirement

**BLOWN ASPHALT**

- [Analysis and Specification Blown asphalt bitumen](#)
- [Packing](#)
- [Shipping Details](#)
- [Minimum Order](#)

**Analysis and Specification  
BLOWN ASPHALT BITUMEN**

Test	Specification	Test Method
<b>Specific Gravity @ 25/25 C</b>	1.01/1.06	D - 70
<b>Penetration@25C</b>	30/100	D - 5
Softening Point C	100	D - 36
Ductility@25 C , cm	100 min	D - 113
Loss on Heating (wt) %	0.2 max	D - 6
Drop in Penetration after Heating%	20 max	D- 6 & D-5
Flash Point C	320min	D - 92
Solubility in CS2 (wt)%		D-4
Organic Matter Insoluble in CS2(wt)%	99.5 min	D-4
Spot Test	-----	*A.A.S.H.O.T.102

**- [Packing](#)**

- 1- Bulk Shipment
- 2- New steel drums: Diameter: 50 cm +/- 1  
Height: 90 cm +/- 5  
Thickness: 0.6 to 0.7 mm  
Net Weight: 170 Kg +/- 5  
Gross Weight: 180 Kg +/- 5
- 3- Used Drums : Diameter: 60 cm +/- 2  
Height: 85 cm +/- 3  
Thickness: 1 mm  
Net Weight: 200 Kg +/- 5  
Gross Weight: 220 Kg +/- 5
- 4- Poly Bags containing 30 Kg net +/- 2

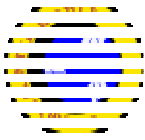
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## *Fluid Loss Control Additives*

Filtrate or fluid loss reducers serve to decrease fluid loss, a measure of the tendency of the liquid phase of the drilling fluid to pass through the filter cake into the formation.

### **Product Name Product Descriptions**

**Gilsonite (API 13A)**

**Gilsonite GW HM , HV , HT \*FLC API GRADE**

**Gilsonite GR HM , HT \*FLC API GRADE**

**Polyanionic cellulose. Low viscosity**

**Polyanionic cellulose, High viscosity**

**CMC, Low viscosity, Pure and technical grade**

**CMC, High viscosity, Pure and technical grade**

**Non Fermenting Starch (API 13A)**

**HT Modified Starch, High Temperature**

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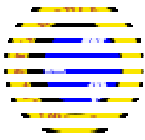
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## *Loss Circulation Material*

The primary function of a lost circulation additive is to plug the zone of loss back in the formation away from the borehole face so that subsequent operations will not result in additional drilling fluids loss.

### **Product Name Product Descriptions :**

Walnut shells (F,M,C)

Mica Flakes (F,M,C)

MIXTURE OF CELLULOSIC MATERIAL (F,M,C)

Calcium carbonate (XF, F, M, C, XC)

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## *Shale Stabilizers*

These products are used to prevent excessive wellbore enlargement and heaving or caving while drilling water-sensitive shales by reducing shale hydration.

### Product Name Product Descriptions :

Partially Hydrolyzed Polyacrylamide  
Partially Hydrolyzed Polyacrylamide, Liquid  
Sodium Sulfonate Asphalt  
HT Sodium Sulfonate Asphalt

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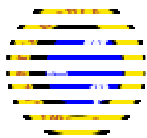
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## *Drilling Foam*

*( Soft Water )*

Drilling Foam is a strong foaming agent for drilling applications which exhibits efficient foaming properties in soft water. It can also be used with water contaminated with high concentrations of crude oil. Its unique formulation is compatible with ordinary thickeners like C. M. C. which usually apply to increase stability of foam.

**Appearance : Liquid**

**Color :Blue**

**Density ( gr/cc) at 20°C : 1.02 ± 0.02**

**PH at 20°C: 7± 1**

**Viscosity ( c.st) at 20°C : 5 ± 3**

**Freezing Point ( °c) : -3 to -5**

**Sediments : 0**

Notice: Above specifications can be adjusted as per customer's requests.

**Handling and storage**

Drilling Foam (1- 55) is a stable formulation in normal and ambient condition. However it should be stored in roofed area and avoid any direct sunlight or frigid weather.

Use no hook when handling plastic drums.

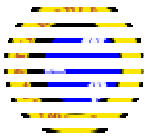
**Safety considerations**

Drilling Foam (1- 55) is formulated from nontoxic chemicals, and has no harm to skin, but in case of contact with eyes, wash with plenty of water and have physician's advice.

**Packaging**

Drilling Foam (1- 55) is packed in 220 lit plastic drum on pallet. This product is normally stable for more than 5 years.





## *Drilling Foam*

*( Salt Water )*

**Drilling Foam** is a strong foaming agent for drilling applications which exhibits efficient foaming properties in soft water, salt water and or sea water. It can also be used with water contaminated with high concentrations of crude oil. Its unique formulation is compatible with ordinary thickeners like C. M. C. which usually apply to increase stability of foam.

**Appearance:** Liquid

**Color:** Dark Brown

**Density ( gr/cc) at 20°C :**  $1.18 \pm 0.02$

**PH at 20°C :**  $7 \pm 0.5$

**Viscosity ( c.st) at 20°C :**  $21 \pm 7$

**Freezing Point ( °c) :** -6 to -10

**Sediments :** 0.2

Notice: Above specifications can be adjusted as per customer's requests.

### **Handling and storage**

Drilling Foam (1- 56) is a stable formulation in normal and ambient condition. However it should be stored in roofed area and avoid any direct sunlight or frigid weather.

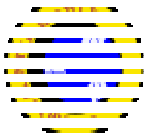
Use no hook when handling plastic drums.

### **Safety considerations**

Drilling Foam (1- 56) formulated from nontoxic chemicals, and has no harm to skin, but in case of contact with eyes, wash with plenty of water and have physician's advice.

### **Packaging**

Drilling Foam (1- 56) is packed in 220 lit plastic drum on pallet. This product is normally stable for more than 5 years.



## *Foam & Defoam Additives*

Foam agents are, most often, chemicals that also act as surfactants (surface active agents) to foam in the presence of water. These foamers permit air or gas drilling through water-bearing formations.

Defoamers are designed to reduce foaming action, particularly in brackish and saturated saltwater mud.

### Product Name Product Descriptions :

**Liquid Defoamer**  
**Aluminum Stearate**  
**Blend of foaming agents and surfactants**  
**Plus Blend of foaming agents and surfactants, concentrate.**

## **Anti foams & Defoamers**

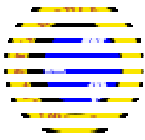
AK-2300

Silicon based defoamer for use in oil wells

AK-60000

Silicon based antifoam specially formulated for use in the oil industry in as in refineries.

Antifoam type	AK-2300	AK-60000
Specifications		
Appearance	Viscous white liquid	Clear transparent liquid
Specific Gravity at 25C	1.02±0.2	1.02±0.2
Max Viscosity at 25C/ Cst	3200	60000
PH	6.5-7.5	6.5-7.5



## *Well Protection*

pH control along with an appropriate corrosion inhibitor are used to control corrosion, neutralize hazardous acid gases and prevent scale in drilling fluids. Common corrosion inhibitors are amine- or phosphate-based products, as well as other specially formulated chemicals.

### **Bactericide and Algaecides are used to prevent bacterial degradation of natural organic additives.:**

Product Name	Product Descriptions
Amine Corrosion Inhibitor	
Film Forming Amine Corrosion Inhibitor	
Scale Inhibitor	
Biocide	



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## *Lubricant & Specialty Additives*

Lubricants are designed to reduce the coefficient of friction of drilling fluid which decreases torque and drag.

Pipe-freeing agents consisting of detergents, soaps, oils, surfactants and other chemicals, these agents are intended to be spotted in an area of suspected pipe stickage to reduce friction and increase lubricity, thereby freeing the stuck pipe.

### Product Name Product Descriptions :

DRILLSLIDE Lubricant  
DRILLGENT Mud Conditioner  
IM-STUCK Pipe-freeing Agents (Unweighted Mud)  
IM-SPOT Pipe-freeing Agents (Weighted Mud)  
DRILL-SIL Sodium Silicate  
(2.2 & 2.8 ratio of nSiO<sub>2</sub>:Na<sub>2</sub>O)

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## *Dispersants & Deflocculates*

These chemicals modify the relationship between viscosity and percentage of solids in a drilling mud, and may be used, further, to reduce gel strength, increase a fluid's pumpability. Principal purpose of a thinner is to function as a deflocculant to reduce attraction (flocculation) of clay particles which causes high viscosity and gel strengths.

### Product Name Product Descriptions :

IM-LIG CF Chrome Free Lignosulfonate  
IM-LIG Chrome Lignosulfonate  
IM-FLOC DF Polyacrylate Deflocullant  
DRILL-SAPP Sodium Acid Pyrophosphate (SAPP)

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CHEMICAL MINE WORLD CO.

[EMAIL US](#)

## *Oil Based Mud Additives*

These products create a heterogeneous mixture (emulsion) of two insoluble liquids. These include fatty acids and amine-based chemicals for oil-based muds and detergents, soaps, organic acids and water-based surfactants for water-based muds. Products may be anionic (negatively charged), non-ionic (neutral) or cationic (positively charged) chemicals depending on the application.

### Product Name Product Descriptions :

HTHP filtration control  
Secondary emulsifier  
Primary emulsifier  
Organophillic Bentonite  
Polyamide emulsifier

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## *Well Cement Additives*

Products for well cementing applications. Includes high sulfur resistant and high temperature stable Class G cement, and full range of additives.

### Product Name Product Descriptions :

Cement, API CLASS 'G'  
Cement Retarder  
Cement Fluid Loss Additive  
Cement Friction Reducer  
Sand Silica Sand, available in all mesh sizes  
Silica Flour, high purity  
Silica Fumed " microsilica ", high purity  
Gas Migration  
Extender  
Cement Anti-Foam  
Dispersant  
Friction Reducer

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## *Specialty Chemicals*

Products used for hydraulic fracturing process to increase the productivity of new and existing natural gas and oil wells.  
Commercial Chemicals

Products used to control the degree of acidity or alkalinity of a fluid include lime, caustic soda, soda ash and bicarbonate of soda, as well as other common acids and bases.

Salts are used to make mud system with properties as required.

### Product Name Product Descriptions :

#### Caustic Soda

Sodium Hydroxide for PH Control.

Calcium Hydroxide PH Control

Soda Ash Hardness Control

Calcium Chloride Completion fluid, base

Drilling Salt Sodium Chloride and potassium Chloride, all grades.

Calcium Bromide Completion fluid, base

Glycol MEG, TEG, Poly Glycols

DEG Monoethylene G Glycol

DEG Diethylene Glycol

TEG Triethylene Glycol

Oxy Polymer (Sadat Polymer)

H<sub>2</sub>S Scavenger





## *Drilling Mud Emulsifier*

### Product Description

It is drilling mud emulsifier for salt water and used to produce oil in water emulsion.

### Application

- Surfactant.
- Emulsifier

### Typical Physical Properties

<b>MUD COMPOSITION</b>			
Oil / Water Ratio	60/40	60/40	70/30
DME (S.W) %	1	1	1
CMC H.V. (lb/bbl)	-	0.5	-
<b>TEST RESULTS</b>			
Apparent Viscosity cPs	20	50	70
Yield point lb/100 ft <sup>2</sup>	20	50	70
Gel Strength 10 sec/10 min	3/4	6/9	12/24
Stability of emulsion after 24 hours	Ok	Ok	Ok
Stability after rolling at 180 °F	Ok	Ok	Ok
pH	7±	7±	7±
Appearance of samples	Single-phase and Non limpid		

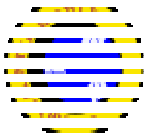
### Recommended Treatment

- Add 1-2 percent by volume to mud system.
- Packaging
- 55 US gallon drums.

Marked on: Name of Manufacturer, Batch No. and Production date.

### Safety Handling

- Use goggles and gloves during usage.
- In case of contact, wash with water and soap.
- Keep in sheltered place.



## Sodium Carboxy Methyl Cellulose

### LV

#### Product Description

CMC LV is sodium Carboxy Methyl Cellulose which used for reducing fluid loss without increasing viscosity. Specially suitable for high temperatures, water soluble.

#### Application

- Fluid loss control agent.
- Suspension agent.

#### Typical Physical Properties

MUD COMPOSITION				
COMPOSITION	1	2	3	4
S.S.W ML	350	350	350	350
CMC L.V GR	8	8	8	8
LIMESTON (P) GR	-	113	-	-
BARITE GR	-	-	228	830
FER.O.BAR GR	-	-	-	45
LIME SOLUTION DROP	Few	Few	Few	Few
DENSITY PCF	75	85	100	145
<b>TEST RESULTS AFTER ROLLING AT 250 F FOR 4 HRS. READING RHEOLOGY AT 140 F</b>				
RESULTS	REQ	REQ	REQ	REQ
APP.VIS CPS	15	20	25	85
Y.P LBS/100FT2	2+	2+	2+	18+
GEL S.10 Sec/10 min LBS/100FT2	1/2	1/2	1+/2+	2+/3+
Ph	7-9.5	7-9.5	7-9.5	7-9.5
API.W.L ML	<15	<10	<5	<5
Sedimentation	NIL	NIL	NIL	NIL

#### Recommended Treatment

Add 4 – 8 lb/bbl.

#### Packaging

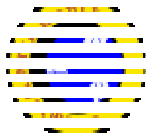
25 Kg multi-ply bags with PE liner palletized and shrink-wrapped.

Marked on: Name of manufacturer, Batch No. and Production date.

#### Safety Handling

Non – toxic , in case of eye contact, rinse with water.

- It Makes slippery surface in water presence.
- Keep in sheltered place, away from direct sunlight



## Carboxy Methyl Cellulose HV

### Product Description

CMC HV is sodium Carboxy Methyl Cellulose which used for reducing fluid loss with supplementary increasing viscosity. Specially suitable for low-solid muds.

### Application

- Fluid loss control agent.
- Suspension agent.
- Viscosifier.

### Typical Physical Properties

Specification	Unit	Requirement
Appearance	Ton/m3	White, free flowing powder
Yield in salt water	Ton/m3	280 min
Yield in salt water	Ton/m3	200 min
Yield in s.s water	Ton/m3	220 min

### Recommended Treatment

Add 0.5-2 lb/bbl.

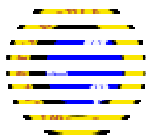
### Packaging

25 Kg multi-ply bags with PE liner palletized and shrink-wrapped.

Marked on: Name of manufacturer, Batch No. and Production date.

### Safety Handling

- Non – toxic , in case of eye contact, rinse with water.
- It Makes slippery surface in water presence.
- Keep in sheltered place, away from direct sunlight



## ZINC CARBONATE

### Product Description

Basic zinc carbonate, for control and removal of soluble sulfides which become incorporated in water base drilling fluids by formation of hydrogen gas. Insoluble in water but soluble in acid.

### Application

Sulfides remover.

### Typical Physical Properties

Specification	Unit	Requirements
Appearance	—	White and very fine powder
Zinc content	%	52-56
Moisture content	%	2 max
Bulk density	gr/cm <sup>3</sup>	0.55
Loss on ignition	%	30

### Recommended Treatment

Add 2-5 lb/bbl.

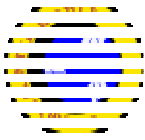
### Packaging

25 kg PP with PE liner waterproof sacks.

Marked on: Name of Manufacturer, Batch No. and Production date.

### Safety Handling

- Low-toxicity, in case of contact wash with water.
- Keep in sheltered place.



## MODIFIED STARCH

**Pregelatinized starch** in any grade for use in oil industry in drilling processes. Pregelatinized starch with Low viscosity using for temperature over 220/ f.

1. Pregelatinized starch with High viscosity up to 220 /f temp.
2. Pregelatinized starch up to 220f 100pcf.

### The analysis of pregelatinized starch:

Drilling pregelatinized starch evaluation for heavy mud( low viscosity)		
Evaluation parameters	Results after roll at max 220 f for min 4 hrs 150pcf	Results after roll and add formation water 15% vol. and weight up to 150pcf and roll at 220 f for 4 hrs 150pcf
Appreance viscosity cps	72±2	65±2
Plastic viscosity	65±5	58±2
Yield point	18±2	15±2
Initial gel point	5±1	4±1
Sec.gel point	7±1	6±1
Water lost	0.5-0.9	0.5-1
Ph	7±0.5	7±.05
settling	NIL	NIL
Drilling pregelatinized starch evaluation for light mud( high viscosity)		
Evaluation parameters	Results after roll at max 220 f for 4 hrs 150pcf	Results after roll and add formation water 15% vol. and weight up to 150pcf and roll at 220 f for 4 hrs 150 pcf
Appreance viscosity cps	75±5	65±5
Plastic viscosity	65±5	60±5
Yield point	30±5	25±5
Initial gel point	9±2	9±2
Sec.gel point	12±2	11±2
Water lost	0.5-1.2	0.5-1.6
Ph	7±0.5	7±0.5
settling	NIL	NIL
Drilling pregelatinized starch evaluation 100pcf		
Evaluation parameters	Results after roll at max 220 f for 4 hrs 100pcf	Results after roll and add formation water 15% vol. and weight up to 150pcf and roll at 220 f for 4 hrs 100 pcf
Appreance viscosity cps	-	-
Plastic viscosity	15±2	15±2
Yield point	12±2	12±2
Initial gel point	3	3
Sec.gel point	4	4
Water lost	2	2
Ph	7±0.5	7±0.5
Settling	NIL	NIL
Drilling pregelatinized starch evaluation ( medium viscosity)		
Evaluation parameters	Results after roll at max 200 f for min 4 hrs	Results after roll and add formation water 15% vol. and weight up to 150pcf and roll at 200 f for 4 hrs
App.vis cps	75±5	65±5
p.v.	65±5	65±5
Y.p.	20±5	25±5
Initial	9±2	9±2
Sec.gel	12±2	H11±2
Api f . 1/ml	1.2±0.2	1.6±0.2
Ph	7±0.5	7±.05
settling	NIL	NIL

Quality : Our quality meet ( API, OCMA standard ) or every analyzing that customer need.

Packing : Product is packed in 25kg net multi-layer paper bags with one moisture proof layer in pallet with shirring pack.

Storage : Product should be stored in a dry place .maximum 12 months.

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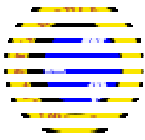
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## Modified Natural Gum

### Product Description

Modified Natural gum is hydrophilic polysaccharides composed of monosaccharide units joined by glycosidic bonds . Insoluble in alcohol and organic solvents but generally soluble in water

### Application

- Viscosifier.
- Fluid loss control

### Typical Physical Properties

MUD COMPOSITION			
COMPOSITION	1	2	3
S.S.W ML	350	350	350
N.GUM GR	8	8	8
LIMESTONE POWDER GR	-	5.08	113
BARITE GR	-	-	-
pH	9-9.5	9-9.5	9-9.5
LIME SOLUTION (DROP)	Few	Few	Few
DENSITY PCF	75	75.5	85
TEST RESULTS AFTER ROLLING AT 220 ° F FOR 4 HRS. RHEOLOGY AT 140 ° F			
PROPERTIES	REQ	REQ	REQ
FOAMING After 1 MIN (ML)	<400	<400	-
APP. VIS (CPS)	16±2	18±3	27±3
P.V (CPS)	10±2	15±3	17±3
Y.P (LBS/100FT2)	10 min	13±3	18±3
10 SEC/10 MIN GEL S. (LBS/100FT2)	2/3	2/3	4/5
API W.L (ML)	15 max	12 max	10 max
pH (AFTER ROLL.)	7-9.5	7-9.5	7-9.5

### Packaging

25 Kg Kraft, 3 ply waterproof sacks.  
Marked on: Name of Manufacturer, Batch No. and Production date.

### Safety Handling

- No specific precaution needed

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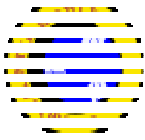
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PICTURE GALLERY



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