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Rama Gum Industries (I) Limited

Manufacturer & Exporter of Guar Gum Split & Powder
Government Recognized Export House Status

Guar Gum in Oil Field Applications

Guar gum Powder is widely used in **Oil and Gas well drilling** to increase the production rate of oil and gas because of its multi-functions such as fluid and water loss control, lubrication and cooling of drill bits, shale inhibitor and solids carrier. It has excellent solution rheology, stability, solubility and compatibility with other auxiliaries used in oil well drilling.

In **oil and gas well drilling** mud, guar gum gives a better colloid to reduce water losses and to regulate the viscosity of mud solution, stabilizes and regulates the flow properties of the drilling mud.

It is also used as a surfactant, synthetic polymer and defoamer ideally suited for all rheological requirements of water-based and brine-based drilling fluids. Present commercial importance of guar gum is because of its use in oil and gas well stimulation specifically hydraulic fracturing in which high pressure is used to crack the rock.

Guar gum makes the fracturing fluid thicker so that it can carry sand into a fractured rock. This fracture remains open due to presence of sand which creates a path for gas or oil to flow to well bore.

- Industrial grade Guar gum powder are use in oil well fracturing, oil well stimulation, mud drilling and industrial applications and preparations as a stabilizer, thickener and suspending agent.
- It is a natural, fast hydrating dispersible guar gum and is diesel slurriable.
- In the oil field industry, guar gum is used as a surfactant, synthetic polymer and deformer ideally suited for all rheological requirements of water-based and brine-based drilling fluids.



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- High viscosity Guar Gum products are used as drilling aids in oil well drilling, geological drilling and water drilling.
- These products are used as viscosifiers to maintain drilling mud viscosities that enable drilling fluids to remove drill waste from deep holes.
- Guar gum products also reduce friction in the holes, and so minimising power requirements. Some Guar Gum products act to minimise water loss should occur in broken geological formations.



Uses:	Drilling fluids hydraulic fracturing
Derivatives:	Borate cross-linked guar gum, hydroxy alkyl ether derivatives
Functions:	Control of water loss, viscosity, suspension, turbulence, mobility, friction reduction.

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