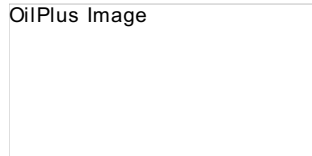


Technical Data Sheet

OilPlus™ Proppants

Description

OilPlus Image



OilPlus™ proppants are an advanced curable resin coated fracturing sand available in 16/30, 20/40, 30/50, and 40/70 mesh sizes. OilPlus proppants are specifically designed for fracturing treatments in oil and liquid-rich reservoirs. Hexion's unique resin coating system increases the relative permeability to oil in the proppant pack, resulting in higher oil production compared to all conventional proppant types.

Typical Applications

Fracture treatments:

At closure stress up to:

- 8,000 psi [55 MPa] (16/30)
- 10,000 psi [69 MPa] (20/40, 30/50 and 40/70)

At bottom-hole static temperatures from 120 - 450F [49 - 232°C]

Technical Advantages and Benefits

- Optimized well production for oil and liquid-rich reservoirs
- Increases the relative permeability to oil in the proppant pack
- Proppant flowback control
- Proppant fines reduction
- Cyclic stress resistance
- Minimizes proppant embedment
- Reduces respirable silica dust exposure below PEL limits

Typical Properties

OilPlus™ Proppants

<https://hexioninternet-hexioninternet-slave.azurewebsites.net/en-US/product/oilplus>

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Property	Value	Unit
Specific Volume	0.383 [0.0459], 0.391 [0.0469], 0.385 [0.0461], 0.386 [0.0463]	cm ³ /g [gal/lb]
API Mesh Size	16/30, 20/40, 30/50, 40/70	
Bulk Density	1.47 [12.3], 1.46 [12.2], 1.45 [12.1], 1.45 [12.1]	g/cm ³ [lb/gal]
Color	brown	
Compatibility	Fully compatible with most commonly used fracturing fluids, both water and oil-based systems. Testing with fluids prior to pumping is advised.	
Composition	resin coated, northern white frac sand	
Median Particle Diameter	0.9116, 0.6177, 0.4382, 0.3042	mm
Particle Size Distribution	meets or exceeds API RP 19C	
Physical State	solid granule	
Pipe Fill Factor	0.680 [0.0815], 0.685 [0.0821], 0.690 [0.0827], 0.690 [0.0827]	cm ³ /g [gal/lb]
Resin Type	thermosetting, curable	
Solubility in Water, Brine & HCl	0.0	weight %
Solubility in HCl/HF acid, API RP 19C	< / = 3	weight %
Solubility In Oil	0.0	weight %
Specific gravity	2.61, 2.56, 2.60, 2.59	
Turbidity	< 250	NTU (FTU)

Technical Considerations

- Grain-to-grain contact must occur and closure stress must be applied during the cure period for proper bonding
- Consolidation of curable product at bottom-hole static temperatures below 120°F [49°C] is achieved by use of our AcTivator™ low temperature consolidation aid

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