

Technical Data Sheet

True North™ Proppants

Description



True North™ proppants are a curable resin coated sand available in 20/40 and 30/50 mesh sizes. This economical product provides all the traditional benefits of curable resin coated sand such as proppant flowback control and proppant fines reduction. Additionally, the resin system reduces dust generation during the pneumatic transfer* and conveying process, which helps improve health and safety on location.

Typical Applications

Fracture treatments:

- At closure stress up to 55 MPa [8,000 psi]
- At bottom-hole static temperatures from 71-191°C [160-375°F]

Technical Advantages and Benefits

- Helps prevent proppant flowback and rearrangement
- Reduces proppant fines generation and migration
- Reduces dust generation*
- Stress Bond™ technology helps prevent wellbore consolidation

Typical Properties

True North™ Proppants
<https://www.hexion.com/en-US/product/true-north>

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Property	Value	Unit
Absolute Volume	0.391 [0.0469], 0.389 [0.0466]	cm ³ /g [gal/lb]
API Mesh Size	20/40, 30/50	
Bulk Density	1.46 [12.2], 1.44 [12.0]	g/cm ³ [lb/gal]
Color	tan	
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 frac sand	
Particle Size Distribution	meets or exceeds API RP 19C	
Physical State	solid granule	
Pipe Fill Factor	0.685 [0.0821], 0.694 [0.0832]	cm ³ /g [gal/lb]
Resin Type	thermosetting, curable	
Solubility in Water, Brine & HCl	nil	weight %
Solubility in HCl/HF acid, API RP 19C	< / = 3	weight %
Solubility In Oil	nil	weight %
Specific gravity	2.56, 2.57	
Turbidity	< 250	NTU (FTU)

*Compared to uncoated frac sand. Pneumatic transfer pressure not to exceed 5 psi.

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 71°C [160°F] is achieved by use of Hexion's ActiVator™ low temperature consolidation aid

Contact Information

Hexion Canada Inc.
Oilfield Technology Group
540-5th Ave. SW, Suite 1280
Calgary, AB T2P-0M2
+1 403 705 0950
www.hexion.com/oilfield

Customer Service
+1 800 626 2116
otg.customerservice@hexion.com

Technical Inquiries
otg.customerservice@momentive.com

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