

INEOS Oligomers

Amodrill® olefin fluids for offshore

Ineos Oligomers offers a range of products to the oilfield drilling arena. The following table identifies the products recommended for drilling offshore and their typical properties within each of these categories. Ineos alpha olefins are clear, colorless, water-white, mobile liquids, which are 99+% olefinic.

Table1 Physical Properties of Amodrill Olefins

Property	Amodrill 1200 Typical Value	Amodrill 1230 Typical Value
Kinematic Viscosity, cSt		
40 °C	2.25	2.14
100 °C	1.03	0.99
Pour Point	-9	-12
Flash Point	124	121
Aniline Point, °C	65	69
Density		
15.6 °C, g/mL	0.782	0.781
60 °F, lb/gal	6.53	6.52

¹Typical properties will vary within specification limits.

Drilling Performance of Olefin Fluids

- Olefin fluids have been used offshore for more than a decade.
- LAO fluids have demonstrated excellent lubricity and improved wellbore stability.

Table 2: Drilling Fluid Comparison Table

	Aromatic (wt. %)	Polynuclear Aromatic Hydrocarbon (PAH) Content (wt%)	Viscosity @ 40 °C (cSt)	Pour Point (°C)	Flash Point (°C)
Amodrill 1200	0	<0.001	2.25	-9	124
Amodrill 1230	0	<0.001	2.14	-12	121
Low Tox Mineral Oil	<2.2	<0.1	3.78	-21	128



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Health Safety and Environmental Attributes of Amodrill Synthetic Olefins

- Reduced exposure to fugitive emissions of aromatic compounds vs. mineral oil
- Low volatility
- Flash points above 100°C
- Low aquatic toxicity
- Low biodegradation

Table 3: Environmental Test Properties of Amodrill 1230

Property	Amodrill 1230
Ecotoxicity	
Species	
Mysid bahia shrimp (formulated mud)	
LC50, 96 hr., ppm SPP	627,400
Mysid insularis shrimp* (formulated mud)	
LC50, 96 hr., ppm SPP	>1,000,000
Biodegradability	
Aquatic Method OECD 306	
Marine Aerobic Ultimate, 28d,% ThoD ¹	71

¹ThoD is Theoretical Oxygen Demand

*Trinidad-Tobago local species

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an e-mail to: oligomersmsds@ineos.com.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained by calling +1-866-363-2454 (Toll Free-North America), or by sending an e-mail to: oligomersmsds@ineos.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by Ineos Oligomers is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

For additional information, samples, pricing and availability, please contact:

INEOS Oligomers

Marina View Building
2600 South Shore Boulevard
Suite 400
League City, TX 77573
Phone: 866-363-2454
www.ineosoligomers.com

INEOS Oligomers

Ocknell House
Beechen Lane
Lyndhurst SO43 7DD
Hampshire, United Kingdom

Tel: Please use specific country number depending from where you call:

UK: +44-2380-287063

France: +33 1 55 1742 50

Germany: +49 69 5007 0257

Belgium/Netherlands: +32 2 711 9702

Nordic Countries: +46 8 587 691 07

Italy: +39 02 696 335 74

Other Countries: +44(0) 207 026 8330

Fax +44-2380-287069



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