

CLAYTONE-1

Cost effective rheological additive for diesel-based drilling fluids to increase the carrying capacity and hole cleaning capabilities.

Product data

Composition

Organophilic phyllosilicate

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C):	1.60 g/ml
Loose bulk density:	416 kg/m ³
Loss on ignition (1 h, 1000 °C):	30 %
Sieve passing (200 mesh/74 µm):	75 %
Supplied as:	free-flowing powder

Storage and transportation

Moisture sensitive. Pallet stacking should be no more than two pallets high in order to prevent compaction.

Applications

Oil-based drilling fluids

Special features and benefits

CLAYTONE-1 is a cost-effective rheological additive based on organo-modified phyllosilicate recommended for use in oil-based muds. In addition to imparting excellent rheological properties, it increases the carrying capacity and hole cleaning capabilities of the drilling fluid. CLAYTONE-1 also has the secondary benefits of improving filtration control and emulsion stability.

Recommended use

CLAYTONE-1 is recommended for drilling fluids utilizing diesel as the base oil and where the bottom hole temperatures will not exceed 175 °C.

Recommended levels

A 5.7–23 kg/m³ addition is typically used for most conventional oil-based invert drilling fluids. Actual CLAYTONE-1 usage will depend on the base oil, oil/water ratio, solids, and the emulsifier package.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

CLAYTONE-1 requires high shear mixing and temperature to fully yield. A small stream of water can be used to reduce yield time. (The water phase of invert emulsions provides the polar activation).



BYK-Chemie GmbH

Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ADD-MAX®, ADD-VANCE®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, POLYAD®, PRIEX®, PURABYK®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions.