

BYK-GO 8720

Low-shear rate rheology modifier for oil and synthetic-based muds.

Product Data

Composition

Solution of an alkyl ammonium salt of polycarboxylic acid.

Typical Properties

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

Appearance: light amber color

Active substance: 55-60 % Density (20 °C): 0.95 g/ml Solvents: Propylene glycol Flash point: 108 °C

Storage and Transportation

Separation or turbidity may occur at temperatures below 10 °C.

Applications

Oil-Based Drilling Fluids

Special Features and Benefits

- Boosts yield point and low-end rheology dramatically; particularly effective in organoclay containing muds
- Allows systems to be fine-tuned without increasing the plastic viscosity of the mud
- Temperature stable to 177 °C (350 °F)
- Provides suspension under low shear conditions
- Boosts the electrical stability of the mud
- Easily pourable compared to conventional fatty acid rheology modifiers

Recommended Use

Any oil-based drilling fluids containing phyllosilicates (organoclays).

Recommended Levels

0.25-2.0 lb/bbl (0.7-5.5 kg/m³) additions should be adequate for most formulations and drilling conditions.

Example Performance in an 11.0 lb/bbl (1.32 g/cm³), 70/30, Mineral Oil-based Mud

	Initial		Hot-rolled at 121 °C (250 °F)	
	Base Mud	1.0 lb/bbl (2.85 kg/m³) BYK-GO 8720	Base Mud	1.0 lb/bbl (2.85 kg/m³) BYK-GO 8720
Plastic Viscosity	15	15	16	17
Yield Point	6	16	5	12
6-rpm	3.3	9.9	3.4	9.1
Electrical Stability	354	657	357	660

Incorporation and Processing Instructions

BYK-GO 8720 can be incorporated directly into the mud system. Minimal agitation is required. Pilot testing prior to use on the rig is highly recommended to determine the minimum required level for effective treatment.

Concentrated Polymer Slurries

Special Features and Benefits

- Reduces polymer settling
- Systems can be fine-tuned without overall viscosity increases
- Can be post-added to existing slurries with minimal mixing

Recommended Use

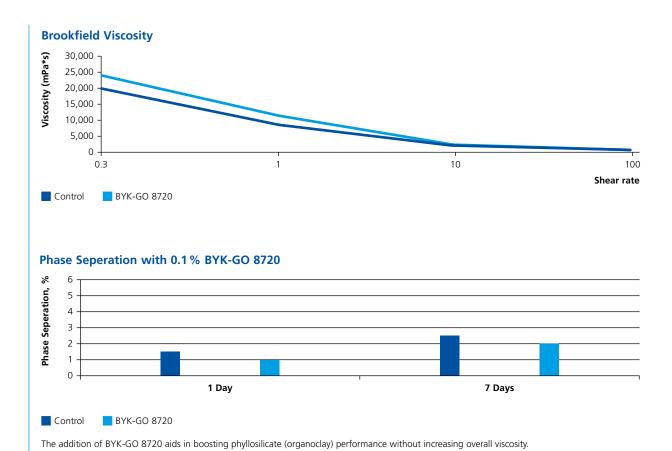
Any solvent-borne fluids containing phyllosilicates (organoclays).

Recommended Levels

0.1-0.5 % by weight (as delivered) additions should be adequate for most liquid gel concentrate formulations.

Example Performance in a 4 lb/gallon Guar Slurry

Treating the slurry with only 0.1 % BYK-GO 8720 increases the low shear rate viscosity by nearly 20 % with no impact to the high shear. The concentrated polymer slurry shows improved suspension properties yet is still easy to pump.



BYK recommends performing a ladder study to optimize your specific formulation.

BYK-GO 8720

Data Sheet Issue 03/2018







BYK-Chemie GmbH P.O. Box 10 02 45 46462 Wesel Germany Tel +49 281 670-0 Fax +49 281 65735

info@byk.com www.byk.com ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKOZBLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERBYK®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, PRIEX®, PURE THIX®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® 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 – Printed in Germany