

Copolymer Beads

Description

Copolymer Beads are spherical shaped solid beads manufactured from styrene and divinylbenzene co-polymer through a suspension polymerization process. The ratio of the styrene to divinylbenzene determines the degree of cross linking or chain entanglement which controls the bead solvent resistance, heat distortion, impact and tensile strength, hardness and compression strength.

Copolymer Beads are available in two particle size cuts: Fine (150 micron/100 mesh to 355 microns/45 mesh) and Coarse (425 microns/40mesh to 850 microns/20 mesh).

Applications

Copolymer Beads are effective solid lubricants that can be used in all types of drilling fluids. They act as ball bearings by embedding into the filter cake and /or wellbore and providing a stand-off effect between the drill string/casing and the wellbore wall. Other applications include spotting in wire-line operations, running casing or liner, coil tubing operations or with work strings, directional changes and sliding.

Features and Benefits

- Reduces torque and drag and eliminates sticking problems
- Decreases casing wear, nonabrasive
- Thermally stable up to 500°F and resistant to deformation at greater than 25,000 psi hydrostatic pressure
- Compatible with WBM and OBM/SBM
- Inert and environmentally friendly

Typical Properties

Appearance	Solid Beads
Color	Clear
Specific Gravity	1.06
Solubility in water	Insoluble

Recommended Treatment

Copolymer Beads should be mixed through the mud-mixing hopper. Generally, concentrations of 2.0 – 8.0 lb/bbl (5.71 – 22.87 kg/m³) are sufficient to control torque and drag. Concentrations of 8.0 –12.0 lb/bbl (22.87 – 34.31 kg/m³) are used for spotting in wire-line operations and running casing.

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

Copolymer Beads are available in 50 lb (22.68 kg) bags.

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