

# Master Fine Beads® & Master Coarse Beads®

## Copolymer Beads



### Product Description

- Water, Oil or Synthetic-based mud additive
- Spherical, mechanical lubricant
- Inert- environmentally safe
- White in color
- Specific gravity 1.13
- Temperature stable to 450°F
- Non-abrasive
- Compatible with all muds
- 16,000 PSI compressive strength
- Fine Size: 160-350 microns
- Coarse Size: 355-900 microns

### Function

- Creates ball bearing effect in casing
- Reduces metal-to-metal friction
- Embeds and paves the wellbore
- Breaks capillary forces

### Benefits

- Reduces casing wear
- Prevents differential sticking
- Lowers torque and drag
- Provides true weight-to-bit
- Facilitates casing and logging runs
- Economical and reusable...



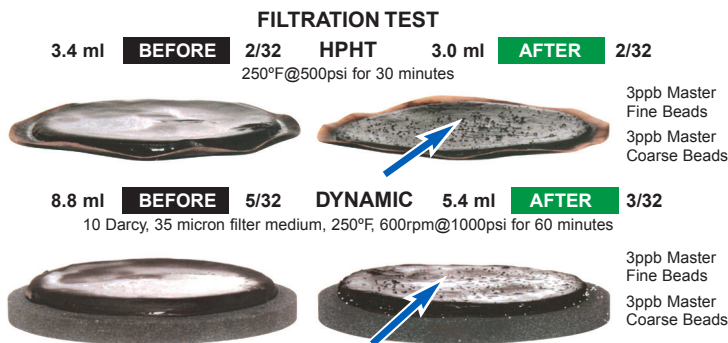
### Mixing Recommendations

- Add Master Fine Beads® or Master Coarse Beads® directly to the hopper.
- Mix 8 to 12 ppb open hole volume or wire line operations and running casing.
- Mix 2 to 8 ppb in entire system to minimize torque and drag / differential sticking.

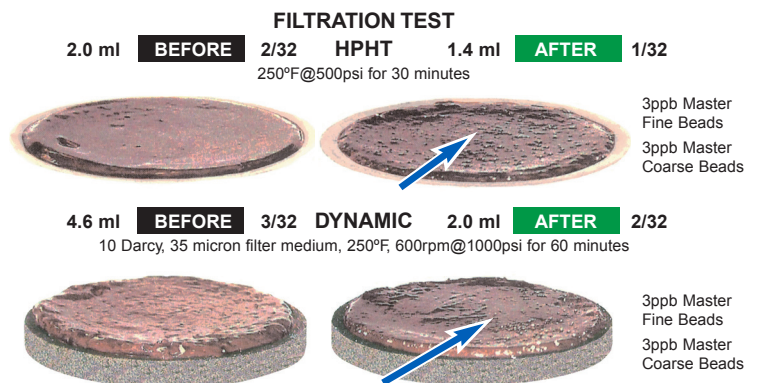
Ask about our Bead Recovery Units.

## Master Copolymer Beads Filter Cake Testing Comparison

### Filter cakes at 250°F - 16.0 ppg water-based mud



### Filter cakes at 250°F - 16.0 ppg diesel oil-based mud



Master Copolymer Beads “embedded” into the “cake face.”  
Break CAPILLARY ADHESION in ANY FLUID.



**Mud Masters Group**  
a division of Horizon Mud Company

See SDS for more product information.  
24 hours: 1 (800) 395-9332 | [www.mudmastersgroup.com](http://www.mudmastersgroup.com)