

# MicroBar

## Micronized weighting additive

### APPLICATIONS

- Narrow hydraulic windows
- Horizontal and extended-reach drilling
- High-density spacers
- Packer fluids

### BENEFITS

- Improves well control management with minimal annular density variations
- Enhances and safer logistics with pneumatic transfer
- Reduces drilling costs by reducing risk of downhole losses

### FEATURES

- Reduced plastic viscosity and yield point
- Low sag potential
- Suitable for finer shaker screens
- Compatible with all base fluid types
- Flows through narrow apertures in completion hardware

MicroBar\* micronized weighting additive is a high-quality micronized barite used as a weighting agent for nonaqueous drilling fluid applications. Compared with API drilling-grade barite, the MicroBar additive reduces barite sag and settlement.

### Enhance operational flexibility

Compatible with all base fluid types, the additive was developed as a dry, pneumatically-conveyable product that can increase the mud weight of high-density nonaqueous fluids where barite sag represents a high risk.

### Optimize viscosity profile

Containing barite ground to 5–8 microns on average, the MicroBar additive offers an enhanced viscosity profile, especially during the prolonged static periods associated with casing and liner runs, emergency disconnects, or planned long-term logging programs.

### Maintain density at ultrahigh temperatures

Notably, the MicroBar additive maintains constant density, even at bottomhole temperatures of 392 degF [200 degC]. This feature reduces the risk of well control issues and NPT associated with wide density variations.

### Save rig time and logistics costs

The ultrafine MicroBar additive is pneumatically conveyable and can be blown from the vessel or bulk trailer to a tank. Pneumatic conveyance eliminates the labor-intensive handling required with micronized dry barite.

### Typical Physical Properties

Physical appearance	Gray to white powder
Bulk density	120–150 lb/ft <sup>3</sup> [1,920–2,400 kg/m <sup>3</sup> ]
Minimum specific gravity	4.10
Particle size distribution	≤25 μm

### Limitations

Applications where weighting agent requires lower particle size distribution.

### Toxicity and handling

Normal safety protective equipment should be worn. Observe the precautions described on the Safety Data Sheet (SDS). Dust masks should be worn while discharging MicroBar additive.

### Packaging and storage

MicroBar additive is available in bulk or can be packaged in 3,300-lbm [1,500-kg] and 2,205-lbm [1,000-kg] bags. Big bag handling facilities need to be available for onsite rig use. Protect MicroBar additive from moisture.