

# MicroLibra high-performance micronized weight material

Reduces rheological profile, improving ECD performance

## Applications

- Horizontal, through-tubing rotary drilling (TTRD), extended-reach wells
- Deepwater environments with narrow hydraulic window
- Conventional and unconventional drilling applications
- Fluids spacers, high-weighted pills, packer fluids, kill fluids

## Reduce solids loading and avoid excessive rheology

MicroLibra\* high-performance micronized weight material is a manganese tetroxide-based (Mn<sub>3</sub>O<sub>4</sub>), high-density, micrometer-sized weighting agent used in water-based and nonaqueous-based drilling fluids. It is most frequently used in high-density muds to reduce the solids loading and avoid excessive rheology.

Fluids weighted up with MicroLibra material contain fewer solids by volume than those muds densified with barite because of the higher specific gravity of the compound. This enables higher densities without compromising the rheological profile and reduces the risk of large density increases that can render the fluid to become un pumpable, which is the case of kill muds in well control scenarios.

Due to the small particle size, MicroLibra material reduces the dynamic and static sag potential in challenging applications such as highly deviated, extended-reach, or HPHT wells where the drilling operations (tripping, logging, casing, and liner runs) entail low pump rates, rotation, or extended static periods.

Because a lower rheological profile is required to keep the MicroLibra material particles in suspension—as compared with standard barite—ECD management is improved in wells with narrow hydraulic windows, such as in deepwater and ultradeepwater fields, TTRD, and depleted reservoirs.

## Toxicity and handling

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the safety datasheet (SDS).

## Packaging and storage

MicroLibra additive is available in 55.1-lbm [25-kg] multiwall sacks or bulk bags. Big bag handling facilities need to be available for onsite rig use.

### Specifications

Physical appearance	Fine dark red-brown powder
Specific gravity	4.75–4.95

All specifications are subject to change without notice.