BARACARB® sized-ground marble is an acid soluble engineered sized product that can be used as a bridging agent for fluid loss applications, increasing fluid density for drill-in applications, or as part of a borehole strengthening treatment in conjunction with the WellSET™ service. BARACARB ground marble is available in seven particle size ranges: 5, 25, 50, 150, 400, 600 and 1200. The numbers reflect the nominal median particle size (d50) of the product. The ground marble has a specific gravity of 2.7 and resists size reduction through attrition while drilling, compared to ground limestone.

**Applications / Functions**

- BARACARB 5, 25, and 50 bridging agents can be used to:
  - Increase the density of water-based and oil-based muds
  - Increase the density of brine-based fluids
  - Bridge for fluid loss control
- BARACARB 50, 150, 400, 600, and 1200 bridging agents can be used as bridging agents for:
  - Lost circulation problems
  - Squeeze mixes

**Advantages**

- Fully soluble in 15% HCl solution (1 gal of HCl dissolves 1.84 lb of BARACARB agent)
- Helps provide effective bridging

**Typical Properties**

- Appearance: White powder or granules
- Specific gravity, approximate: 2.7 to 2.78

**Recommended Treatment**

Use the following formulas to determine the appropriate concentrations to be added.

1. As a weighting agent, add BARACARB 5, 25, or 50 agents as needed to increase fluid density up to 14 lb/gal (1.68 gm/cm).
   - For 1 bbl starting volume:
     \[ X = 945 \frac{(W_f - W_i)}{(22.5 - W_f)} \]
   - For 1 bbl final volume:
     \[ X = 945 \frac{(W_f - W_i)}{(22.5 - W_i)} \]
   Where:
   - \( X \) = BARACARB agent required, lb/bbl
   - \( W_f \) = Final desired mud weight, lb/gal
   - \( W_i \) = Initial mud weight, lb/gal

2. As a bridging agent, add 5-10 lb/bbl. (14.26-28.53 kg/m³) of the appropriate grade(s) of BARACARB agent. Note: The added BARACARB agent should have an average particle size equal to or not less than one third the formation pore diameter to maximize bridging effectiveness.
BARACARB 5, 25, 50, 150, 400, 600 and 1200 are packaged in 50-lb (22.7-kg) sacks and 2,000-lb supersacks.

![Particle Size Distribution Diagram](image)

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

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