

## FRACBLACK HT®

### ULTRA-LIGHTWEIGHT PROPPANT



#### WHERE PRODUCTION MEETS POTENTIAL

#### SUPERIOR PROPPANT PLACEMENT FOR ENHANCED WELL PERFORMANCE

FracBlack® Ultra-Lightweight Proppant (ULWP) is designed for stimulation of unconventional wells to provide significantly greater fracture conductivity via unparalleled proppant placement in the far field fracture area and improved reservoir contact. FracBlack® is an advanced thermoset nanocomposite bead, featuring near-neutral buoyancy, high strength and thermal stability for application in most reservoirs with or without conventional proppants. This breakthrough ULWP provides technical resolution to the primary limitations which impair conventional proppant placement and performance. The high strength and near-neutral specific gravity of FracBlack® ULWP is designed to optimize proppant transport, placement, and conductivity longevity allowing you to “Prop What You Frac”.

Utilization: FracBlack® ULWP is used to provide effective propped fracture conductivity throughout the fracture network due to the material’s low specific gravity and near-neutral buoyancy in water-based fluids. The addition of 1%-5% by weight to the overall proppant volume delivers significant production increases over conventional sand proppants alone.

#### Advantages of FracBlack® ULWP Over Conventional Proppants:

- Near-neutral buoyancy facilitates placement in far-field fractures.
- Perfect for slick water or low-viscosity fluids; fewer fluid additives needed, minimizing damage risk.
- Chemically inert, physically smooth and spherical.
- Deformable - does not crush, chip, break, or generate migrating fines like sand proppants. Resists embedment preserving propped fracture width and residual conductivity
- No dust during handling for improved HSE compliance.
- Non-abrasive - will not damage tubing, pumps or surface equipment during application or production.
- Manifests excellent dissipation of static electricity, facilitating ease in handling.
- No sticky resin coatings to impact fluid performance, pumping, or production equipment.

#### Technical Data:

##### API 19C/ISO 13503-2:

- Specific Gravity 1.054g/cm<sup>3</sup>
- Bulk Density 41.2 lb/ft<sup>3</sup>
- Absolute Density 65.8lbs/ft<sup>3</sup>
- Sphericity & Roundness >0.9
- Acid Solubility < 1%
- Turbidity 26
- US Mesh Sizes 14/40, 30/80 & 100 mesh
- Median Diameter (mm/in)
  - 14/40 0.762/0.030
  - 30/80 0.313/0.012
- Crush Resistance > 8 Kpsi
- Fines Generation\* <0.5% @ 8000 psi

##### API 19D/ISO-13503

- Reference Conductivity:\*\*
  - 0.02 lb/ft<sup>2</sup> , 250° F, 6000psi, 50hrs
  - 14/40 121 mD-ft
  - 30/80 482 mD-ft

\*Results based on specific sample. Fines are small material or misshaped, not broken or traditional fines

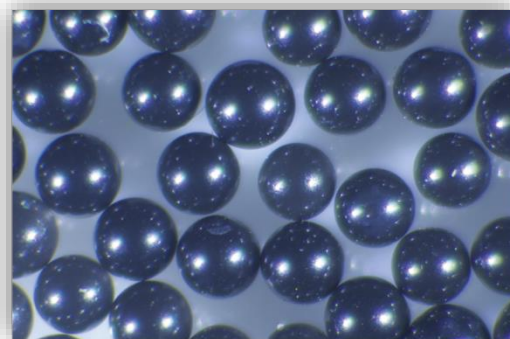
\*\*Proptester™ Report 400-16-08-15-02-J

#### Application Recommendations:

- BHST Range\*\* 275° F-300° F
- Closure Stress Max 8000psi
- Application Rate\* 0.005-0.02 lb/ft<sup>2</sup>

\*Recommended addition rate dependent upon proppant size and reservoir/job design characteristics.

\*\*Well conditions exceeding recommendations should be considered on a case by case basis



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