



BARAD-658™

Cement Additive

Description BARAD-658™ cement additive is designed for cement systems consisting of construction grade Portland cement and water. Based on a 15.6 lbs/gal (1.87 SG) slurry design, this additive imparts filtration control with a fast, even dispersion of the cement in water. It is suitable for use in development of annular seals, well abandonment and placement of directional wedges.

- Applications/
Functions**
- Controls filtration rates across permeable zones
 - Delivers high compressive strength development within 24 hours
 - Suitable for use in fresh or salt water

- Advantages**
- Provides an easily pumped slurry with lower viscosity than typical high density cements.
 - Reduces number of stages, or jobs, required to fully cement the well.
 - Lowers pump demands and gives a more effective placement of the cement column.
 - May be used in fresh or seawater.
 - Will remain fluid in mixing equipment longer than typical high density cements.
 - Filtration control properties will help protect formations and guard against flash setting of cement.
 - May be either added to mix water before cement or dry-blended into cement prior to hydration.

**Typical
Properties**

▪ Appearance	dark brown powder
▪ Solubility	water soluble
▪ Density	35-45 lbs/ft ³ (560-720 kg/m ³)

- Recommended
Treatment**
- To obtain the greatest benefit from BARAD-658 cement additive, the material should be added to the make-up water and mixed at high shear prior to the addition of the cement. Allow five minutes of high shear mixing for the additive to dissolve. For optimal results, the cement should also be mixed at high shear to ensure uniform wetting of the cement particles.
 - The recommended usage concentration of BARAD-658 cement additive is 0.75 lbs (0.34 kg) per 94 lb (43 kg) sack of cement, or 0.8% by weight of cement (BWOC).
 - BARAD-658 cement additive has no additional water requirement and is designed for use at the optimal water requirement of 5.2 gals of water per 94 lb sack of cement (46% bwoc) for API Class A/B or ASTM Type I/II. The cement-to-water ratio should be adjusted to 6.3 gals of water per 94 lb sack of cement (56% bwoc) when using API Class C or ASTM Type III cements.
 - Significant deviation from the appropriate cement-to-water ratio in conjunction with this additive could lead to unpredictable results and should be avoided.
 - Suitable cements for use are ASTM Type I, API Class A, ASTM Type II, API Class B, ASTM Type III or API Class C Portland Cements.
 - BARAD-658 cement additive can be pre-blended into the dry cement ahead of time and mixed into the mix water at high shear.

Packaging BARAD-658 cement additive is packaged in 15-lb (6.80 kg) plastic pails.

Availability BARAD-658™ cement additive can be purchased through any Baroid IDP Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your IDP Sales Representative.

**Baroid Industrial Drilling Products
Product Service Line, Halliburton**
3000 N. Sam Houston Pkwy. E.
Houston, TX 77032

Customer Service	(800) 735-6075 Toll Free	(281) 871-4612
Technical Service	(877) 379-7412 Toll Free	(281) 871-4613
