

# Diacel<sup>®</sup> HTR-100 Powder Cement Retarder Additive



Diacel<sup>®</sup> HTR-100 Powder Cement Retarder Additive is an upper mid-range to high-temperature cement retarder. The powder form is typically dry blended with the cement prior to preparation of the cement slurry. Diacel<sup>®</sup> HTR-100 Liquid Cement Retarder Additive is typically added to the mixing water prior to preparation of the cement slurry.

Diacel<sup>®</sup> HTR-100 Powder or Liquid Cement Retarder Additive extends the thickening time of the cement slurry to provide sufficient time for placement. It has a mild dispersing effect on the cement slurry that reduces the concentration of dispersant required and inhibits premature slurry gelation with most cement slurries. Diacel<sup>®</sup> HTR-100 Powder or Liquid Cement Retarder Additive improves the performance of most fluid-loss agents and is particularly beneficial when used with synthetic polymer additives.

## Application Areas

- All API classes of cement
- Freshwater, saltwater or seawater slurries

## Typical Range of Use

**Temperature** 175°F - 375°F (80°C - 190.6°C) BHCT

**Concentration** 0.1% - 2.0% BWOC (powder)  
0.01 - 0.5 US gal / 94 lb sack (liquid)

**Density** 12 - 20 lb/US gal (1.44 - 2.4 g/cm<sup>3</sup>)

## Physical Properties

### Diacel<sup>®</sup> HTR-100 Powder Cement Retarder Additive

- Dark brown powder
- Specific gravity = 1.2 g/cm<sup>3</sup>
- Complete water solubility

### Diacel<sup>®</sup> HTR-100 Liquid Cement Retarder Additive

- Dark brown aqueous liquid
- Specific gravity = 1.3 g/cm<sup>3</sup>
- 55 wt % active solution of Diacel<sup>®</sup> HTR-100 powder
- 0.0155 US gal Diacel<sup>®</sup> HTR-100 liquid / 94-lb sack = 0.1% Diacel<sup>®</sup> HTR-100 powder BWOC

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Drilling Specialties Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.