

## PRODUCT DATA SHEET

**WH-5 OBM Detergent****Product Description**

WH-5 is formulated with a variety of high-efficiency surfactants, wetting reversal agents, organic solvents and other additives. It has a strong penetrating effect and can quickly penetrate into the mud cake formed on the well wall during the drilling process, and the mud cake is dispersed and eroded away, thereby improving the cementing ability of the cement slurry and the contact surface.

**Characteristics**

- Non-toxic, odorless, non-corrosive.
- It has strong oil washing characteristics, can effectively remove and displace the oil phase substances in the well, and change the lipophilic interface in the well to a hydrophilic interface, thereby improving the cementing ability of the cement slurry.
- Good compatibility with oil-based mud.

**Technical Specification****Table 1 Physical and chemical property**

Items	Specification
Appearance	Homogeneous liquid

**Table 2 Formula of flushing fluid**

Name	Specification	Content, g	Ratio
Water	Hot water(50℃)	600	100
Flushing fluid	WH-5	60	10

**Table 3 Cleaning effect of flushing fluid**

Items	Test condition	Technology
Flushing efficiency (10min),%	Fan viscosimeter outer barrel dipped in crude oil, speed :300r/min, solution temperature: ≥38℃	≥80.0

WH-5 is diluted to 2~50% aqueous solution. The flushing fluid dosage of each well is designed according to the annular height of 300 meters, and can be formulated according to the actual well cementing design.

**Packing, Storage**

- Stored in plastic barrels, 25kg/barrel, or packed according to the request of clients.
- Kept away from fire, damage and leakage in store and transportation.
- Storage life time is one year.