

## PRODUCT DATA SHEET

**USZ Friction Reducer for Oil Well Cementing****Product Description**

USZ drag reducing agent (dispersing agent) can adjust the electric charge on the surfaces of cement particles to get proper cement rheology. As a result, it can reduce pump pressure, enhance drilling efficiency and used in construction easily.

**Characteristics**

- USZ is modified polymer which made up of methanal and acetone.
- The normal dosage is: 0.3%-0.8% USZ (BWOC), and it is not confined to this range in some particular case.
- Soluble easily
- Increasing additive dosage, it can adjust the rheology of the cement slurry effectively, and reduce the consistency.
- With good high temperature resistance, it can be used within 30°C-180°C (BHCT).
- Consolidate cement stones, enhance its compression strength and control fluid loss.
- With certain retarding property.
- Mixed with or without water.
- Good compatibility with other additives.

**Technical Specification**

Items	Specification
Appearance	No hardened particles or powder
Fineness (0.315mm sieve),%	<15.0
Thickened linear(85°C,70.3MPa,44min),Bc	Normal
Ratio of thickening time(85°C,70.3MPa,44min)	1.0 - 2.0
Rheology(85°C,0.1MPa)	n K,Pa.s <sup>n</sup>
Initial consistency, Bc	≤ 15.0
Ratio of compression strength(110°C,21MPa,24h)	≥ 0.80

1. The ratio of thickening time: refers to the ratio of thickening time of cement slurry with drag reducer to the thickening time of pure cement slurry.
2. The ratio of compression strength: refers to the ratio of the compression strength of cement stone with drag reducer to the thickening time of pure cement paste.

**Packing, Storage**

- USZ sacked with three-layer plastics bag, 25kg per bag.
- Be kept away from moisture and possible damage of the packages in transportation, and stored in cool and dry situation. Storage life time is two years.

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