

## PRODUCT DATA SHEET

**UPV-L Friction Reducer for Cementing****Product Description**

UPV-L 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**

- UPV-L is modified by USZ .
- The normal dosage is 0.6%-3.0% (BWOC), and it is not confined to this range in some particular case.
- Dissolve 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-150°C (BHCT).
- Consolidate cement stones, enhance its compression strength and control fluid loss.
- With certain retarding property.
- Good compatibility with other additives.

**Technical Specification**

| Items   | Specification       |        |
|---|---------------------|--------|
| Appearance  | Homogeneous liquid  |        |
| 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                   | ≥ 0.50 |
|   | k,Pa.s <sup>n</sup> | ≤ 0.70 |
| Ratio of Compression strength(110°C,21MPa,24h)  | ≥ 0.80              |        |
| <p>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.</p> <p>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.</p> |                     |        |

The ingredient of the cement slurry in the table is: G class: cement , W/C:0.44,  
Dosage of UPV-L :1.5%(BWOC) , Water quality: distilled water .

**Packing, Storage**

- Be sacked with plastics barrel, 25kg per barrel.
- Be kept away from moisture and possible damage of the packages in transportation, and stored in cool and dry situation.
- Storage life time is one year.

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