TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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HYDRA™ Series – Hydrasol DBW 11

DYEBATH WETTING AGENT

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Hydrasol DBW 11 is a specially developed wetting and penetrating agent formulated for use in dyebath applications.
It offers excellent wetting performance and level dyeing characteristics under acidic, neutral, and mildly alkaline conditions.
This product ensures uniform dye penetration, prevents uneven dyeing, and improves color reproducibility for various types of textile fibers.

Key Performance Properties:

- **Excellent dyebath wetting and penetration performance.**
- **Provides fast and uniform wetting in dyeing and pretreatment processes.**
- **Stable in high temperature, acid, alkali, and electrolyte conditions.**
- **Compatible with most anionic and nonionic surfactants and dyes.**
- **Minimizes unlevel dyeing, streaking, and patchy appearance.**
- **Biodegradable and environmentally friendly.**

Typical Properties:

Property	Specification
Appearance	Colorless to pale yellow, clear liquid
pH (25 °C)	6 ± 1
Ionic Nature	Nonionic
Water Miscibility	Completely soluble in water
Foam Character	Moderate to low foaming
Stability	Stable to acids, alkalis, electrolytes, and hard water

Application:

Hydrasol DBW 11 is suitable for use in exhaust dyeing, continuous dyeing, and pretreatment operations.

- **Exhaust dyeing: 0.5 – 1.5 g/L**
- **Continuous dyeing: 2 – 5 g/L**

Adjust dosage as needed according to fiber type, dye class, and process conditions.

Precautions:

- **Avoid direct mixing with strong acids or alkalis.**
- **If excessive foam appears, add a small amount of compatible defoamer.**
- **Do not mix with cationic auxiliaries without prior testing for compatibility.**

Packing Size:

Hydrasol DBW 11 is available in 60 kg and 120 kg closed-mouth HDPE drums.

Storage:

- **Maximum storage and transport temperature: 40 °C.**
- **Store in a cool, dry, and ventilated place away from direct sunlight.**
- **Shelf life: 6 months when stored in original sealed container.**
- **“Best use before end” date is shown on the product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: HYDRA™ Series – Hydrasol DBW 11
Category: Dyebath Wetting Agent