TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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SEQUESTRA™ Series – Sequestra DEP 33

Dark Shade Sequestering Agent

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Sequestra DEP 33 is a specialized sequestering agent formulated to effectively chelate and neutralize metal ions in dye baths containing dark shades.
It prevents metal-induced dye precipitation, discoloration, and uneven dyeing, ensuring enhanced color depth, uniformity, and fabric brightness for dark and intense shades.

Key Performance Properties:

- **High efficiency in chelating metal ions causing color defects in dark dye shades.**
- **Prevents iron and other metal ion-related color blemishes and specks.**
- **Improves dye uptake and color fastness.**
- **Compatible with reactive, disperse, vat, and other dye classes.**
- **Stable under typical dyeing conditions including high temperature and pH variations.**
- **Environmentally friendly and biodegradable.**

Typical Properties:

Property	Specification
Appearance	Clear to amber liquid
pH (25 °C)	6.5 – 8.0
Ionic Nature	Anionic
Water Miscibility	Fully soluble
Stability	Stable at pH 5 – 9 and temperatures up to 90 °C

Application:

- **Use in dye baths for dark shade dyeing to prevent metal-induced defects.**
- **Typical dosage: 0.3 – 1.0 g/L depending on metal ion concentration and shade depth.**
- **Suitable for various dyeing processes including batch and continuous.**
- **Adjust dosage based on process trials and water quality.**

Precautions:

- **Avoid mixing with strong acids or incompatible chemicals.**
- **Use protective gear during handling.**
- **Store in tightly sealed containers to maintain stability.**

Packing Size:

Available in 25 kg, 60 kg, and 120 kg HDPE drums.

Storage:

- **Store in a cool, dry, ventilated place below 40 °C.**
- **Shelf life of 12 months in unopened original packaging.**
- **“Best use before end” date printed on product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: SEQUESTRA™ Series – Sequestra DEP 33
Category: Dark Shade Sequestering Agent