TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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METACARE™ Series – Metacare NES 34

Neutral Sequestering Agent for Dyebath

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Metacare NES 34 is a neutral pH sequestering agent specially designed for use in dyebaths to effectively chelate metal ions such as calcium, magnesium, iron, and other trace metals.
It helps prevent metal-induced dye precipitation, color blemishes, and fabric damage, ensuring improved dye uptake, uniformity, and brightness.

Key Performance Properties:

- **Effective sequestration of metal ions at neutral pH conditions.**
- **Prevents color flaws caused by metal contaminants.**
- **Enhances dye penetration and fixation.**
- **Compatible with a wide range of dyes and auxiliaries.**
- **Stable in neutral dyebath environments.**
- **Environmentally friendly and biodegradable formulation.**

Typical Properties:

Property	Specification
Appearance	Clear to light amber liquid
pH (25 °C)	6.5 – 7.5
Ionic Nature	Anionic
Water Miscibility	Fully soluble
Stability	Stable at neutral pH and temperatures up to 90 °C

Application:

- **Add Metacare NES 34 to dyebaths containing hard water or metal ions.**
- **Typical dosage: 0.5 – 1.0 g/L depending on metal content and dyeing process.**
- **Suitable for use with reactive, direct, disperse, and vat dyes.**
- **Adjust dosage as needed based on lab trials for optimal dyeing performance.**

Precautions:

- **Avoid mixing with strong acids or incompatible chemicals.**
- **Use protective equipment during handling.**
- **Store in sealed containers to maintain product quality.**

Packing Size:

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

Storage:

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

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: METACARE™ Series – Metacare NES 34
Category: Neutral Sequestering Agent for Dyebath