TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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IONEXA™ Series – Ionexa CMF 30

Standard Ca^{2+}, Mg^{2+}, Fe^{3+} Sequestrant

Manufacturer: Tusi Haytham Bio Limited

Product Description:

Ionexa CMF 30 is a powerful and reliable sequestrant designed to effectively chelate and neutralize calcium (Ca^{2+}), magnesium (Mg^{2+}), and iron (Fe^{3+}) ions commonly found in process water and textile wet processing baths.

By binding these metal ions, it prevents scale formation, metal-catalyzed decomposition of bleaching agents, and discoloration during dyeing and finishing processes.

Key Performance Properties:

- **Strong chelation of Ca^{2+}, Mg^{2+}, and Fe^{3+} ions.**
- **Prevents scale and deposition in machinery and fabrics.**
- **Protects bleaching agents from premature decomposition.**
- **Enhances dyeing uniformity and fabric brightness.**
- **Stable over a wide pH range and temperature conditions.**
- **Compatible with other wet processing auxiliaries.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	6.0 – 8.0
Ionic Nature	Anionic
Water Miscibility	Completely soluble
Stability	Stable across pH 4–10 and temperatures up to 80 °C

Application:

- **Add Ionexa CMF 30 to process baths containing hard water or metal ions.**
- **Typical dosage: 0.5 – 1.0 g/L depending on water hardness and process requirements.**

- **Can be used in scouring, bleaching, dyeing, and finishing processes.**
- **Adjust dosage based on lab trials and specific process conditions.**

Precautions:

- **Avoid mixing with strong acids or incompatible chemicals.**
- **Use appropriate protective equipment when handling.**
- **Store in tightly sealed containers.**

Packing Size:

Ionexa CMF 30 is available in 25 kg, 60 kg, and 120 kg plastic drums.

Storage:

- **Store in a cool, dry, well-ventilated place below 40 °C.**
- **Shelf life of 12 months when stored properly in original packaging.**
- **"Best use before end" date indicated on the product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: IONEXA™ Series – Ionexa CMF 30
Category: Sequestering Agent (Ca^{2+}, Mg^{2+}, Fe^{3+})