TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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LEVINEX™ Series – LEVINEX™ N-200

Advanced Nylon Levelling System – Gives Uniformity, Penetration & Perfection
Manufacturer: *Tusi Haytham Bio Limited*

Product Description:

LEVINEX™ N-200 is a high-performance nylon levelling agent designed to deliver exceptional shade uniformity, dye penetration, and fabric perfection in nylon and nylon-blend dyeing.
It promotes controlled dye migration and diffusion during dyeing, ensuring consistent shade depth and minimizing streaks, barre marks, or patchy areas.
LEVINEX™ N-200 enhances dyeing efficiency while preserving the softness and strength of the fabric.

Key Performance Properties:

- **Provides excellent levelling and migration of acid dyes on nylon fabrics.**
- **Ensures deep and uniform dye penetration for smooth, even shades.**
- **Improves reproducibility and shade consistency between dye lots.**
- **Minimizes streaks, barriness, and uneven dyeing.**
- **Compatible with acid dyes and metal-complex dyes.**
- **Non-foaming and stable under typical dyeing conditions.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	6.0 – 7.5
Ionic Nature	Anionic / Nonionic blend
Specific Gravity (25 °C)	1.05 ± 0.03
Solubility	Fully soluble in water
Stability	Stable in acidic conditions and at high dyeing temperatures

Application:

- **Add LEVINEX™ N-200 to the dye bath before introducing dyes.**
- **Adjust bath pH to 4.5 – 5.0 with acetic or formic acid.**
- **Start dyeing at 40–50 °C, then gradually raise the temperature to 100–110 °C over 30–45 minutes.**
- **Hold for 30–60 minutes to ensure full dye migration and levelness.**
- **Typical dosage: 0.5 – 2.0 % owf, depending on shade depth and fabric type.**
- **Compatible with acid dyes, metal complex dyes, and common dyeing auxiliaries.**

Precautions:

- **Do not mix directly with strong cationic chemicals in concentrated form.**
- **Use protective gloves and goggles while handling.**
- **Avoid prolonged exposure to heat or direct sunlight.**
- **Ensure proper ventilation during use and storage.**

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.**
- **Keep containers tightly sealed when not in use.**
- **Shelf life: 12 months from the date of manufacture in unopened packaging.**
- **Refer to the product label for the “Best use before end” date.**

Issued by:

Tusi Haytham Bio Limited – Technical Division
Product: LEVINEX™ Series – LEVINEX™ N-200
Category: Nylon Levelling Agent