ELONMEK
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Technical Data Sheet
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653 / 653D Silicone-Free Fatty Alcohol Ether Emulsion Defoamer

Grades: 653, 653D (degassing) · Form: Silicone-free emulsion · Chemistry group: Silicone-Free Emulsion

1. Product description

Silicone-free emulsion defoamer engineered for paper sizing white water and other low-pH systems. The 653D variant is optimised for degassing duty.

2. Typical properties

Property	653	653D (degassing)
Appearance	White emulsion	White emulsion
Active content	30.0±1.0	30.0±1.0
Viscosity (25 °C, mPa·s)	300-1800	200-1500
pH	6.0-8.0	6.0-8.0
Ionic type	Non-ionic	Non-ionic

Values in the table are typical and indicative. They describe the grade as normally supplied and are not a contractual specification; the values confirmed for your order are those stated on the order confirmation.

3. Typical applications

Alum rosin sizing white water · Modified starch white water · Polyacrylamide retention systems · AKD emulsion sizing white water · Dye and pigment manufacture · Ink manufacture

4. Product characteristics

· Completely silicone-free
· Designed for low-pH systems
· Removes surface foam and fibre-adsorbed micro-bubbles
· Degassing-optimised 653D grade

5. Addition and dilution

Typical addition is 0.05–0.5 % on the weight of the foaming system, established in your own trial at process temperature. Emulsion grades are normally diluted with water before addition and added continuously where the foam forms continuously. Diluted emulsions are used within the working shift; do not store them long term.

6. Packaging and storage

Supplied in the packing agreed for the order — drums, IBC totes or composite cartons for powder grades. Store in the closed original packing, out of direct sunlight, within 5–35 °C, and protect emulsions from freezing. Shelf life is stated on the product label; batches are traceable by lot number.

7. Safety and documentation

A model-specific GHS safety data sheet is issued on request for every model listed above; it is not reproduced here because classification follows the exact grade and the destination regulation. Handling guidance for the family: avoid eye and skin contact, use gloves and goggles, ensure ventilation, and do not discharge concentrates to drains.

8. Contact

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Issued by the ElonMek technical team, Tianjin. This sheet is provided for product introduction and evaluation; it does not constitute a warranty or a delivery commitment.