TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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FIBROGAIN™ Series – Fibrogain GSM Plus
GSM Improver – Textile Finishing Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Fibrogain GSM Plus is a high-performance GSM (grams per square meter) improver designed to safely increase fabric weight by 20–25 gsm. It delivers superior handfeel, enhanced body, and excellent drapability while offering maximum stability and durability. Ideal for premium textile finishing applications where higher GSM enhancement is required.

Key Performance Properties:

- **Increases fabric weight by 20–25 gsm.**
- **Improves handfeel, body, and drapability of fabric.**
- **Safer and highly durable compared to standard GSM improvers.**
- **Compatible with common textile auxiliaries in finishing processes.**
- **Suitable for padding and coating applications for heavier GSM fabrics.**

Typical Properties:

Property	Specification
Appearance	White to off-white liquid
Solid Content	35 – 45 %
pH (25 °C)	5.5 – 7.5
Viscosity (25 °C)	300 – 700 mPa·s
Solubility	Fully miscible in water
Stability	Very high; maintains performance under normal storage and processing conditions

Application:

- **Apply Fibrogain GSM Plus via padding or coating processes.**
- **Typical pickup: 5 – 25 % owf depending on fabric type and desired GSM increase.**
- **Cure fabric according to process requirements for optimum finish.**
- **Optimize dosage via lab trials for desired weight, handfeel, and durability.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and eyewear.**
- **Do not mix with strong acids or oxidizing agents without dilution.**
- **Store in tightly sealed containers to maintain product quality.**

Packing Size:
Available in 25 kg, 60 kg, and 200 kg HDPE drums.

Storage:

- **Store in a cool, dry, ventilated area below 40 °C.**
- **Shelf life: 12 months from date of manufacture in unopened containers.**
- **Check product label for “Best use before end” date.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
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Category: GSM Improver – Textile Finishing Applications