TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Fibrogain GSM is a high-performance GSM (grams per square meter) improver designed to safely increase fabric weight by 10–20 gsm. It provides a fuller hand, enhanced body, and improved fabric drapability while offering superior stability and durability compared to economical variants. Ideal for premium textile finishing applications.

Key Performance Properties:

- **Increases fabric weight by 10–20 gsm.**
- **Improves handfeel, body, and drapability of fabric.**
- **Safer and more durable than economical GSM improvers.**
- **Compatible with common textile auxiliaries in finishing processes.**
- **Suitable for both padding and coating applications.**

Typical Properties:

Property	Specification
Appearance	White to off-white liquid
Solid Content	30 – 40 %
pH (25 °C)	5.5 – 7.5
Viscosity (25 °C)	250 – 600 mPa·s
Solubility	Fully miscible in water
Stability	High; maintains performance under normal storage and processing conditions

Application:

- **Apply Fibrogain GSM via padding or coating processes.**
- **Typical pickup: 5 – 20 % 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
Product: FIBROGAIN™ Series – Fibrogain GSM
Category: GSM Improver – Textile Finishing Applications