

TEXTILE PRINTING

OCEANTHIX™ TG

High-Performance
Alginate for
Regenerative
Textile Applications

OCEANTHIX™ TG is a low-viscosity sodium alginate, a naturally occurring anionic polymer extracted from seaweed. It is composed of mannuronic acid (M) and guluronic acid (G) units arranged in varying sequences, which define its rheological and functional performance.



APPEARANCE: OFF-WHITE POWDER
ODOUR: NEUTRAL, NO OCEANIC NOTES

APPLICATION AREAS

TEXTILE PRINTING AS A DYE THICKENER

Suitable for reactive dye printing on cellulose, rayon and wool fabrics and for printing disperse dyes. Does not react with reactive dyes. Dosage- 4-6%

Can be used for all-aqueous and semi-emulsion printing pastes.

FIBER SPINNING (Wet Spinning):

Produces high quality fibers due to its solubility, controlled gel formation, ease of processing

TEXTILE SIZING

Suitable to form a protective coating, improving yarn strength and reducing breakage during weaving.

FABRIC COATINGS & BINDERS

Functions as a binder in textile coatings and functional fabric finishes.

KEY FUNCTIONAL PROPERTIES

- Cold-soluble, easily dispersible, reduces preparation time
- Low-viscosity grade suitable for precise rheology control
- Shear-thinning (pseudoplastic) behavior at higher concentrations suitable for dye printing
- Excellent film-forming and color transfer properties
- Naturally anionic, enabling dye repellence rather than dye binding, does not react with dyes (unlike hydroxyl-rich natural gums)
- Stable under alkaline conditions and easily removable by washing-off during textile printing due to low dye-thickener interaction
- Compatible with blends of synthetic and natural thickeners

Produced by Origin by Ocean, OCEANTHIX™ TG is derived from invasive algae blooms through a patented, green-chemistry-based biorefinery process.

OCEANTHIX™ TG delivers high technical performance while supporting ecological restoration, carbon capture, and regenerating coastal livelihoods.



ORIGIN^{BY}OCEAN is a Finnish based innovative biotech company dedicated to transform invasive ocean overgrowth into high-performance, bio-based ingredients for food, nutraceutical, personal care, and beyond. By leveraging regenerative innovation, we deliver scalable, sustainable alternatives to fossil-derived chemicals – proving that ocean restoration can be a commercially viable and competitive advantage.

Partner With Us Now: Samples, technical support and future supply: sales@originbyocean.com