

5103 – PROPYLENE GLYCOL ALGINATE (PGA) (FOOD GRADE)

REF NO: TBL/QA/SS/F/5103.	STANDARD SPECIFICATION FOR PROPYLENE GLYCOL ALGINATE (PGA) (FOOD GRADE)	Rev. No: 03
Issue No: 04		Review Date: 07/02/2025
Issue Date:08/02/2022		Product code: 5103

PRODUCT PROPERTIES

C.A.S Number	9005-37-2
Chemical Formula	(C ₉ H ₁₄ O ₇) _n
Formula weight	174.25
Functional Uses	Propylene Glycol Alginate is used as Stabilizer, thickener, emulsifier
Standard Packaging	25 kg

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White to yellowish brown filamentous, grainy, granular or powdered forms
Solubility	Soluble in water giving a viscous, colloidal solution; soluble in up to 60% aqueous ethanol depending upon degree of esterification.

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Loss on drying (105°C, 4 h)	NMT – 20.0%
Water-insoluble matter (on dried basis)	NMT – 2.0%
Total propylene glycol	15.0% – 45.0%
Free propylene glycol	NMT – 15.0%
Arsenic	NMT – 3mg/kg
Lead	NMT – 5mg/kg
Assay (on dried basis)	16.0% – 20.0%

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

