

AURIST™ GHI

Natural rheology modifier



Product description

AURIST™ GHI is a flexible natural rheology modifier with unique sensory profiles suitable for all applications. Extracted from the endosperm of the guar bean grown in India and Pakistan, it is the ideal thickener for formulas with sustainability claims. Its synergistic interaction with xanthan gum form stronger associations thereby optimizing viscosity.

Benefits



Formulation at low pH

Applicable for use in wide range of pH including low pH such as in skin care leave on formulas with acid i.e. serum with AHA.



Improved Sensory

Shows low coefficient of friction compared to other gums and can be used for improved sensory when combined with xanthan gum in skin care leave on formulations.



Formulation with cationic components

A neutral charged gum, it is suitable for use in formulation with cationic components i.e. formulation with cationic preservation system and hair conditioner.



Cold process rinse-off

It can be dissolved in cold water hence suitable for application such as translucent conditioner made by cold mixing process.

Product identification

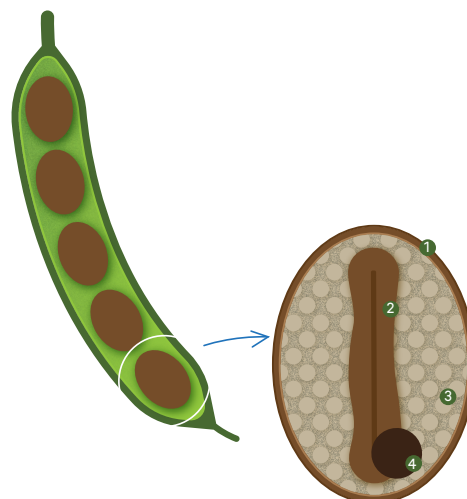
INCI name Cyamopsis Tetragonoloba (Guar) Gum
CAS number 9000-30-0

Typical characteristics	
Appearance	Off white to yellow fine powder
Viscosity (Viscosity at 25°C, 1% (1hr) in dem. water, Brookfield RVT, 20 rpm, Spindle 3)	3000-4500 mPa*sec
Moisture	4-15%
Bulk density	0.7g/ml
pH 1% solution	5.5-7.0
Total Viable Count	Max 100CFU/g

Origin

AURIST™ GHI is derived from the endosperm of a type of legume called the guar bean. Guar is a drought resistant crop. During drought stress, there is loss of water in the outer parts of the endosperm.

Due to the thick nature of the galactomannan cell walls, the embryo is embedded in a still relatively moist milieu for a certain time. This effect indicates that the mannans may also serve as a hygroscopic buffer¹, which makes it a unique thickener used across many industries.



¹ Literature references available upon request

1 Hull 2 Cotyledon 3 Endosperm 4 Embryo

Applications

Category	Skin care, hair care, leave on, rinse off
Recommended use	0.2 - 1%
pH range of use	3-10

Compatibilities

Water soluble ingredients i.e. polyols and alcohols (glycerin, Propylene glycol, 13BG, 13PDO, Pentylene glycol, Ethoxydiglycol)

Water soluble polymers (carbomers, Acrylates, Alkylacrylate crosspolymer, Polyacrylamide Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Ammonium Acryloyldimethyltaurate/VP Copolymer, Sodium Polyacrylate, etc.

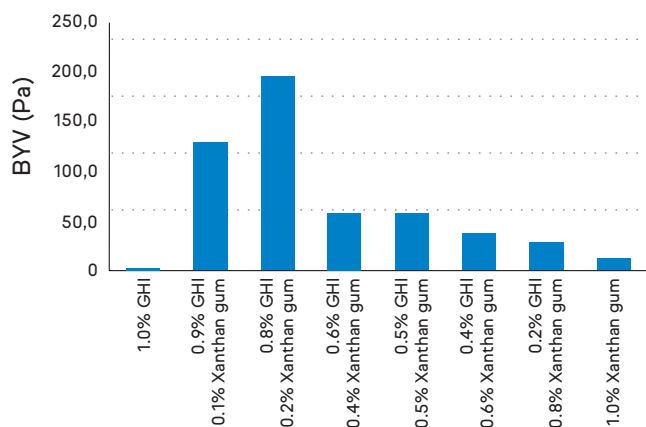
Surfactant: formulation needs to be checked case by case

Stable in presence of electrolytes

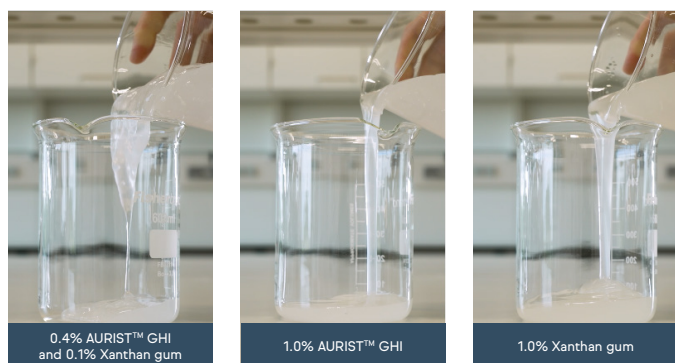
Ethanol: max 10% solution

Synergies

The AURIST™ GHI and Xanthan gum combo shows interaction providing unique properties.



BYV = viscosity at 0.5rpm - viscosity at 1rpm)/1000 [Pa]



Health & Biosciences

Home & Personal Care

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Certifications and statements

Natural certifications	Cosmos, Natrue
Kosher and Halal	statement available
Natural Index (ISO 16128)	NOI = 1
Source	Cyamopsis Tetragonoloba (Guar plant)
Production country	France

For other statements, please contact your sales representative.

Regulatory information

Listed on relevant global chemical inventories. For more details, please refer to separate regulatory document.

Shelf life

Goods in the original packages at temperature below 25°C and relative humidity less than 65% can be expected to retain stability for at least 12 months.

Storage conditions

Product is acceptably stable to air and heat.

Packaging

Available in 20kg paper bag with blue PE inner liner in 1000kg pallet.

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