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Version: 1.3

Valida T

PRODUCT DESCRIPTION

Carboxymethylated fibrillated cellulose in water suspension. Valida T is derived from wood pulp that has been sourced from sustainably managed forests. The product is a multifunctional additive which can be widely used in stabilizing and thickening transparent aqueous systems, encapsulated fragrances, oil-in-water emulsions, exfoliants, TiO₂, ZnO, as well as coloured formulations.

INCI name: Cellulose gum, pentylene glycol, water

CAS No. 9004-32-4

HS code: 39123100

Note: This is a development product. Commercialisation depends on market response.

SPECIFICATION

Parameters	Value	Unit	Test method
Product Form	Translucent gel		Visual
Colour	Colorless to yellowish		Visual
Solid Content	2.0 - 3.0	%	ESTM 9302
Viscosity of 0.75 wt.% at 100s ⁻¹ , 20 °C	≥ 400	mPa.s	ESTM 5303
pH of 0.4 wt.% suspension	5.0 - 7.0		pH Meter
Transmittance (0.4 wt.%, 700nm)	≥ 70	%	UV-vis spectrometer
Heavy metals as Pb	<20	mg/kg	ICP-MS
Arsenic as As	<2	mg/kg	ICP-MS
Total bacteria count	<100	cfu/g	ISO 4833-2
Total mold and yeast	<100	cfu/g	ISO 21527-1

ENVIRONMENTAL INFORMATION

Valida T is biodegradable and harmless.

INFORMATION FOR HANDLING

Dispersion Guidance:

A good dispersion of transparent Valida gel is critical to utilize its full benefits. We recommend introducing transparent Valida gel at an early process step, preferably dispersing Valida in deionized water first before moving to the emulsification step, etc.

Table. Redispersion guideline for Valida T:

Dispersion Equipment	Speed (rpm)	Batch size (grams)	Dispersion time (min)	Vision check
Dispermat Dissolver or propeller	2000	400	30	A well dispersed suspension is a transparent gel without any transparent gel lumps. Air entrapment can be visible when dispersion is performed with high speed equipment.

COMPATIBILITY

Parameters	Compatibility
pH	Maintain viscosity and transparency between pH 5.5 and pH 12.
Electrolytes	For stabilization functionality: Valida T is tolerant to salt (NaCl, CaCl ₂ and MgSO ₄) up to 1.0 wt.%. Valida T is more resistant to monovalent ions than divalent ions. For maintaining the high transparency: it is recommended to avoid use of salts.
Alcohol	Valida T is stable with alcohols (like glycerol, ethanol and butanediol) with a concentration up to 50%.
Temperature	Valida T shows stable viscosity between 40-70 °C in aqueous system.
Surfactants	Compatible with synthetic anionic and amphoteric surfactants (<i>i.e.</i> , Sodium laureth sulfate (SLES), Cocoimidopropyl betaine. Addition of xanthan gum can enhance the compatibility when it is required.

DELIVERY FORM

Packed in pouches (10 kg net weight), which will be transported in cardboard boxes (2 pouches per box, 20 kg net weight) on pallet.

STORAGE STABILITY

Recommended storage condition: ambient or lower, and avoid freezing and direct exposure to sunlight. The product is sterilized. Provided stored as advised, the product has a shelf life of 18 months from the date of production. Once open, the pouch containing transparent Valida gel should be re-sealed to avoid moisture loss.