

**Sappi Biochemtech BV**

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 Version: 2.2

**Valida S+ CS-8****PRODUCT DESCRIPTION**

Fibrillated cellulose in water suspension. Valida S+ CS-8 is derived from wood pulp that has been sourced from sustainably managed forests. The product is a multifunctional bio-based additives which can be used in aqueous systems, oil-in-water emulsions, serums, creams, as well as coloured formulations.

INCI name: Cellulose + Cellulose Gum

CAS No. 9004-34-6 and 9004-32-4

COSMOS-approval

**SPECIFICATION**

Parameters	Value	Unit	Test method
<b>Product Form</b>	Paste		Visual
<b>Colour</b>	White		Visual
<b>Solid Content</b>	7.5 - 8.5	%	ESTM 9302
<b>Viscosity of 1.0% at 100s<sup>-1</sup>, 20 °C</b>	≥ 700	mPa.s	ESTM 5303
<b>pH of 1.0% suspension</b>	4.0 - 7.0		pH Meter
<b>Heavy metals as Pb</b>	<20	mg/kg	ESTM 3039-1
<b>Arsenic as As</b>	<2	mg/kg	ESTM 3039-1
<b>Total bacteria count</b>	<100	cfu/g	ISO 4833-2
<b>Total mold and yeast</b>	<100	cfu/g	ISO 21527-1
<b>Preservative</b>	Yes		

**ENVIRONMENTAL INFORMATION**

Valida S+ CS-8 is biodegradable and harmless.

## DISPERSION GUIDELINES

A good dispersion of Valida S+ CS-8 is critical to utilize its full benefits. It is pivotal that Valida is pre-dispersed in the water phase according to the guidelines in the table below, before adding other ingredients.

Dispersion guideline for Valida S+ CS-8:

Dispersion Equipment	Speed (rpm)	Batch size (grams)	Dispersion time (min)	Vision check
<b>Ultra Turrax (T25)</b>	10000	400	5	A well dispersed suspension will show thickening effect with a creamy appearance. Visible lumps or aggregates are indications of an undispersed suspension.
<b>Dispermat Dissolver</b>	2000	400	30	

## DOSAGE GUIDELINE

The optimal dosage of Valida S+ CS-8 in a formulation depends on the required functionality, as well as the nature of the other ingredients in the formulation. Note that adding Valida S+ CS-8 will not result in an immediate thickening effect. The primary functionality of Valida S+ CS-8 is stabilization at low viscosity. A combination of Valida S+ CS-8 and a thickener is recommended when a 'gel-like' system is required.

Valida Grade	Composition (wt.%)	Valida S+ CS-8 /Total Formulation (g/g)	Active content (g/g Formulation)	The amount of water introduced to the formulation by Valida (g/g)
Valida S+ CS-8	8 ± 0.5% Cellulose 92 ± 0.5% Water	1.0%	0.08%	0.92%
		3.0%	0.24%	2.76%
		5.0%	0.4%	4.6%
		12.5%	1.0%	11.5%

## 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 pallets.

## STORAGE STABILITY

Recommended storage condition: ambient or lower, and avoid freezing and direct exposure to sunlight. Provided stored as advised, the product has a shelf life of 18 months from date of production. Once open, pouches containing Valida S+ CS-8 should be re-sealed to avoid moisture loss and used within 3 months.