

Lucid Colloids Ltd.

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Product Information

Edicol® Food Grade Guar Gums

FAO/WHO Codex Alimentarius - Food Status: A1, ADI: Not Specified. European Community - Food Status: E-412. Food Chemical Codex - Food Status: Direct Food Additive. Guar gum that meets FCC specifications is affirmed as GRAS as a direct food additive under FDA regulation 184.1339.

FEMA/GRAS No: 2537. CAS No: 9000-30-0

White - cream coloured powder, extracted from the endosperm of Guar seeds, "Cyamopsis Tetragonalobus". Hot and cold water soluble Galactomannan Polysaccharide. Beta 1,4 linear mannose backbone chain with a single galactose side unit on approximately every alternate mannose unit in an alpha 1,6 linkage. High viscosities at low concentrations. Non-Newtonian, pseudo-plastic rheology. Viscosities increase exponentially with increasing concentrations. Estimated Mol Wt range = 0.1~10 x 10⁶

Food Grade Guar Gums - Edicol® - Product Matrix							
	Viscosity		Particle Size				
	Viscosity Type	Typical Viscosity (#)	Fine	Med. Coarse	Coarse	Very Coarse	
			90% < 200 mesh (75 μ)	60% < 200 mesh (75 μ) and 20% > 100 mesh (150 μ)	μ) and 20% > 100	70% > 60 mesh (250 μ)	
			Finer <> Coarser				
			Faster <> Slower				
			Difficult <> Easier			-> Easier	
Lower < Viscsoity Higher	Ultra High	7000	110-70				
	Very High	6500	100-70, 90-70	100-60, 90-60	100-50, 100-30, 90- 50, 90-30		ıer
	High-High	6000	80-70	80-60	80-50, 80-30		Higher
	Medium-High	5500	70-70	70-60	70-50, 70-30		1 <
	Low-High	5000	60-70	60-60	60-50, 60-35, 60-30	60-10	其
	High-Medium	4000	40-70	40-60	40-50, 40-30,		Molecular Weight
	Medium- Medium	3000	30-70	30-60	30-50, 30-40	30-10	lecula
	Low-Medium	2000	20-70	20-60	20-20		Mo
	High-Low	1000	ULV 1000				
	Medium-Low	450 - 750	ULV 750, ULV 500				٠ <u>-</u>
	Low-Low	40 - 200	ULV 200, ULV 100, ULV 50				Lower <
	Ultra Low	5 - 750 cps @ 3% conc.	FGDG-1 to 9(*)				
			▲ Edicol® Grade Nos ▲				

(#) = Typical 1% Brookfield Viscosity, cps (mPas), 2 hrs, 25° C.

(*) FGDG series products are a blend of Guar Gum E412 and Partially (Enzymatically) Hydrolysed Guar Gum (PHGG)

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