

QPN 300

Application: Industrial Pure-White Modified Calcium Bentonite

TYPICAL ANALYSIS

General Description	QPN-300 is a high cation exchange capacity, pure white, swelling and gelling activated Calcium Bentonite	
Functional Use	Household and industrial applications where moderate swelling and brilliant whiteness are specifically desired.	
Purity	Hydrous aluminium silicate comprised principally of the clay mineral montmorillonite. Contains minor amounts of feldspar, calcite, and quartz.	
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$	
Moisture	Maximum 14% as shipped	
C.E.C	70 – 80 meq / 100g.	
Brightness	L = 86 min a = -1.4 to +1.2 b = 7 max	
Dry Particle Size	Minimum 95% passing 300 mesh (53 micron).	
Elemental Analysis (Moisture Free)	SiO ₂ 68.30%	Al ₂ O ₃ 16.92%
	Fe ₂ O ₃ 1.34%	MgO 3.31%
	CaO 0.97%	Na ₂ O 0.85%
	K ₂ O 1.05%	LOI 7.06%
	Cristobalite 5% max	Quartz 2% max
Packaging	Multi-wall paper bags (25 kg), Big Bags or bulk	

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