



ALMATIS

PREMIUM ALUMINA



Global Product Data

HyBrite® 100 Aluminum Trihydroxides White Pigment Slurry for Ease of Use in Paper

Product Information

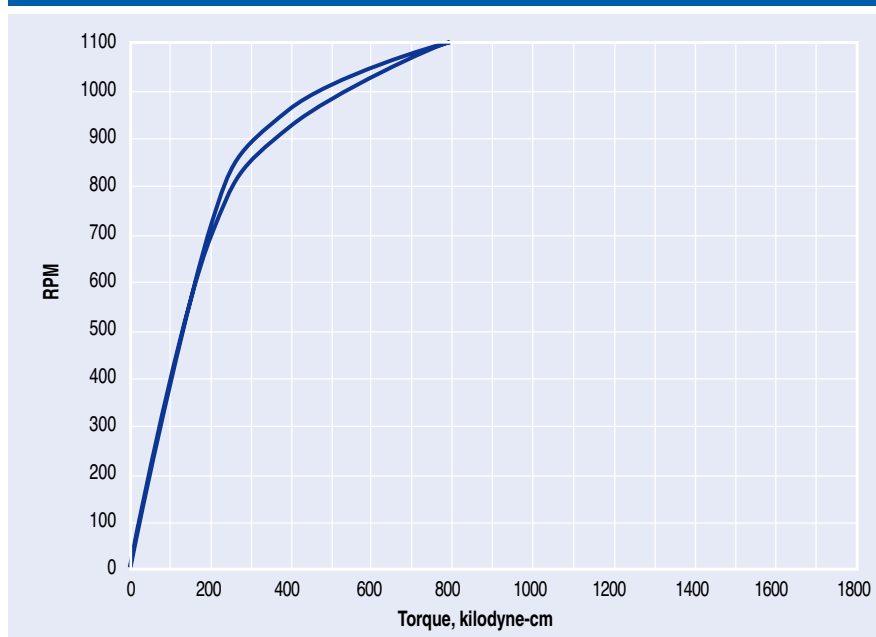
Almatis HyBrite 100 is a white pigment with a 100% TAPPI brightness. It is recommended as a replacement for TiO_2 in paper grades where opacity is less critical, but high whiteness and cost savings are desired.

HyBrite 100 is used as a paper filler and coating pigment for improved brightness, greater opacity, and smoother, glossier surface over other pigments of similar particle size.

Product Description

HyBrite 100 Slurry is a convenient-to-use paper filler pigment. It is available in totes, bulk truck, or rail car. The high shear rheometer data below points out the excellent rheology properties of HyBrite 100 slurry.

Hercules High Shear Rheology for HyBrite 100 Slurry



Think alumina, think Almatis.

GP-SH/025/R05/1207/MSDS 1079



HyBrite® 100 Aluminum Trihydroxides White Pigment Slurry for Ease of Use in Paper

HyBrite 100 Slurry	
	Typical
Chemical Composition (%)	
Al(OH) ₃	99.5
SiO ₂	0.004
Fe ₂ O ₃	0.007
Na ₂ O	0.24
Physical Properties	
Einlehner abrasion (mg)	1.2
Median particle size (mm)	1.1
Surface area (m ² /g)	4.0
Absolute density (g/cm ³)	2.42
Index of refraction	1.57
Brightness, TAPPI	100
pH	7.6-9.6
Screen residue on 325 mesh (%)	0.002
Slurry (% solids)	67-70
Typical Slurry Properties (at 70% solids)	
Slurry weight (lb/gal)	14.14
Pigment weight (lb/gal)	9.90
Slurry density (lb/ft ³)	110
Slurry viscosity (cps)	800
Slurry stability (days)	30

Slurry Weights and Solids Contents		
Solids	Slurry Weight	Solids Content
Weight %	g/cc (lb/gal)	g/l (lb/gal)
63	1.586 (13.22)	999.5 (8.33)
64	1.601 (13.35)	1024.9 (8.54)
65	1.617 (13.47)	1050.8 (8.76)
66	1.632 (13.60)	1077.2 (8.98)
67	1.648 (13.73)	1104.0 (9.20)
68	1.664 (13.87)	1131.5 (9.43)
69	1.680 (14.00)	1159.4 (9.66)
70	1.697 (14.14)	1187.9 (9.90)
71	1.714 (14.29)	1217.0 (10.14)
72	1.732 (14.43)	1246.7 (10.39)

2003 Data - All data are based upon Almatis standard test methods, and all test methods are available upon request. Unless stated otherwise values are typical.



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