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Technical Data Sheet

Hydral 710 – TiXtend

Applications

- Adhesives and adhesive tapes
- Cosmetic powders and lotions
- Polishing agent
- Plastics
- Paper
- Thermoset and thermoplastic materials
- Stock and paperboard

Properties

- Increase cohesion
- Fine polishing
- Extreme fineness and smooth texture
- Mild polishing in dentifrices
- Disperses easily

Technical Data Parameter

Component	Unit	Typical Analysis
Al(OH) ₃	%	99.5
SiO ₂	%	0.004
Fe ₂ O ₃	%	0.007
Na ₂ O (total)	%	0.24
Na ₂ O (soluble)	%	0.016
Physical Properties		
Moisture	%	0.20
Loose bulk density	g/cm ³	0.30
Packed bulk density	g/cm ³	0.51
Surface area	m ² /g	4.0
Particle Size		
% on 325 mesh by wet screen		0.003
d ₉₅ (μ) by Sedigraph 5100		2.1

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d50 (μ) by Sedigraph 5100		1.1
d10 (μ) by Sedigraph 5100		0.7
Other Physical Properties		
LOI	%, 110-1100°C	34.5
Density	g/cm ³	2.42
Mohs hardness		3
Refractive index		1.57
Brightness	% Z	99+
Color		White
Test Methods		
Al(OH) ₃	By difference	
SiO ₂ , Fe ₂ O ₃ , and total soda	DC Arc Optical Emission Spectrometry	
Soluble soda	Flame Emission Photometry	
Moisture	Microwave	
Loose bulk density	Modified ASTM B212-89	
Packed bulk density	Modified ASTM B557-85	
Surface area	Brunauer-Emmett-Teller method of nitrogen absorption	
Z percent brightness	Z value of the XYZ tristimulus divided by 1.18103	

Disclaimer

Superior Mineral Solutions LLC certifies the above product meets the agreed upon performance specifications. Superior Mineral Solutions LLC is not responsible for the misuse and subsequent product failure. No warranty is expressed or implied in such instances. All products utilized in conjunction with (Product Code(s)) need to be tested in advance to ensure compatibility. Users assume all risk with such endeavors. Consult the Safety Data Sheet for specific hazards.

Technical Data Sheet

Revised 04/2026