

POLYFILL, POLYJET INDUSTRIAL GRADES

Alumina Trihydrate and Surface Modified Alumina Trihydrate Products.

Alumina trihydrate is the leading flame retardant and smoke suppressant product used in a wide range of industrial applications.

TYPICAL PHYSICAL PROPERTIES												
Product Name	Polyfill 30	Polyfill 110	Polyfill 130	Polyfill 203	Polyfill 204	Polyfill 301	Polyfill 302	Polyfill 402	Polyfill 403	Polyfill 405	Polyfill 407	PolyJet 502
Median Particle Size (Microns)	60	16	19	13	15	10	12	3	4	5	7	2.2
Retained on 325 Mesh (%)	94	20	30	6.0	8.0	0.5	2.0	0.0	0.0	0.0	0.0	0.0
Retained on 200 Mesh (%)	70-83	3.9	9.4	0.4	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Retained on 100 Mesh (%)	5-15	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Specific Gravity	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
Bulk Density (lb/ft³)	.70	.56	.60	.49	.51	.43	.45	.38	.40	.41	.42	.35
Bulk Factor (gal/lb)	.0495	.0495	.0495	.0495	.0495	.0495	.0495	.0495	.0495	.0495	.0495	.0495
Free Moisture	0.5	0.5	0.5	0.5	0.5	0.5	0.5	.80	.80	.80	.80	.80
Hunter "L" Brightness*	92	96	96	98	98	97	97	98	98	97	97	98
Oil Absorption	-	29	28	26	30	28	33	49	40	41	31	36

POLYFILL SM PRODUCTS ARE ALSO AVAILABLE

The SM series is an alumina trihydrate product surface modified for better performance. Polyfill's even distribution and free flowing properties permits higher loading levels without the generation of higher viscosities.

*Performed on HunterLab UltraScan Pro unit



TYPICAL CHEMICAL PROPERTIES Polyfill **Polyfill Polyfill Polyfill Polyfill Polyfill** Polyfill **Polyfill Polyfill Product Name** Polyfill Polyfill **PolyJet** 30 204 110 130 203 301 302 402 403 405 407 502 **Aluminum Oxide** 64.900 64.900 64.900 64.900 64.900 64.900 64.900 64.900 64.900 64.900 64.900 64.900 (Al₂O₃)Silica (SiO₂) 00.010 00.010 00.010 00.010 00.010 00.010 00.010 00.010 00.010 00.010 00.010 00.010 **Ferric Oxide** 00.009 00.009 00.009 00.009 00.009 00.009 00.009 00.009 00.009 00.009 00.009 00.009 (Fe₂O₃)Soluble Soda 00.050 00.050 00.050 00.050 00.050 00.050 00.050 00.050 00.050 00.050 00.050 00.050 (Na₂O) Max. **Total Soda Max.** 00.300 00.300 00.300 00.300 00.300 00.300 00.300 00.300 00.300 00.300 00.300 00.300 Loss on Ignition 34.600 34.600 34.600 34.600 34.600 34.600 34.600 34.600 34.600 34.600 34.600 34.600

1,2,10,

12,13

1,2,10,

12,13

7,9,10,

12,13,

14,15

7,9,10,

12,13,

14

7,9,10,

12,13,

14

7,9,10,

12,13

2,7,9,10,

12,13,14,

15

INDUSTRY/MARKET

1. ADHESIVES

4,7,10,

11

(H₂O)

Industry/Market

- 2. CAULKS & SEALANTS
- 3. CARPET BACKING/LATEX COMPOUNDING
- 4. CAST POLYMERS/CAST EPOXIES

1,2,3,

13

- 5. CERAMICS
- 6. CIPP REHABILITATION
- 7. ELASTOMERS
- 8. FLOORING
- 9. PAINTS & COATINGS
- 10. RUBBER
- 11. THERMOPLASTICS
- 12. THERMOSET PLASTICS (BMC/SMC, EXTRUSION, PULTRUSION, RTM, SPRAY-UP APPLICATION

7,10,12, 7,10,12,

13

13

13. FIBERGLASS REINFORCED PLASTIC (FRP) APPLICATIONS

1,2,12,

13

- 14. VINYL APPLICATIONS
- 15. WIRE AND CABLE



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