

Technical Datasheet

ALUPREM® TB 1X • TB-3X

Aluminum Oxihydrate X-SERIES

ALUPREM® TB -1X and TB-3X are designed for use as a cost effective, high performance, high temperature flame retardant and smoke suppressant fillers for use polymer systems.

	TB-1X	TB-3X
CHEMICAL ANALYSIS (Typical)		
ALO(OH) content, %	99.9	99.9
Na ₂ O, %	0.07	0.07
SiO ₂ , %	0.01	0.01
Fe ₂ O ₃ , %	0.01	0.01
Moisture Content (105° C), %	0.2	0.15
Loss on Ignition (LOI) (1200°), %	17	17
Conductivity (μS/cm)	120	120
PHYSICAL PROPERTIES (Typical)		
Whiteness R 457	98	97
Particle Size (laser, Sympatec) - d ₅₀ , (μm)	1,0	2.5
Specific Surface, (m ² /g)	7	4
Specific Density, (g/cm ³)	3.0	3.0
Bulk density, (kg/m ³)	750	600
Oil Absorption (%)	28	35

The information herein is believed to be correct and reliable; however, no warranty is given concerning the accuracy of these data, merchantability or fitness for particular use.

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ALUPREM® TB DRY • TB-1/T, Aluminum Oxihydrate

ALUPREM® TB DRY and TB-1/T are designed for use as a cost effective, high temperature flame retardant and smoke suppressant / char promoting filler for application in halogen-free polymer systems.

Due to their high temperature stability, they can be used as additive to Magnesium Hydroxide in extreme temperature processing applications, such as Engineered Thermoplastics and Polyolefins.

As an additive, it improves rheological properties for extrusion. ALUPREM® TB DRY and TB-1/T are ideal for use as a flame retardant synergist to other FR products such as Magnesium Hydroxide, ATH or Phosphorus to achieve most stringent flame retardant rating. It offers excellent processing behavior, low alkalinity & moisture / good resin compatibility and improved mechanical properties. *Various organic coatings possible.*

	TB Dry	TB-1/T
CHEMICAL ANALYSIS (Typical)		
ALO(OH) content, %	99.4	99.4
Na ₂ O, %	0.08	0.08
SiO ₂ , %	0.02	0.02
Fe ₂ O ₃ , %	0.03	0.03
Moisture Content (105° C), %	0.5	0.5
Max, %	1.0	1.0
Loss on Ignition (LOI) (1200°), %	17	17
Conductivity (µS/cm)	150	200
PHYSICAL PROPERTIES (Typical)		
Whiteness R 457	97	97
Particle Size (laser, Sympatec) - d ₅₀ , (µm)	2.5	1.0
Specific Surface, (m ² /g)	4.5	12
Specific Density, (g/cm ³)	3.0	3.0
Bulk density, (kg/m ³)	600	600
Oil Absorption (%)	35	28

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