Van Horn, Metz & Co. INC.
Your Global Supply Chain Partner

Halogen Free – Flame Retardants

Name	Physical and Chemical Properties								Application:
	Phosphorus % (w/w)	Nitrogen % (w/w)	pH value (10% suspension)	Water Content % (w/w)	Thermal Decomposition 0C	Density at 250C kg/L	Viscosity 250C in 10% in suspension mPa.s	Average Particle Size (um)	
Ammonium Polyphosphate									
ThorcoFlame APP201	≥ 31	≥ 14	5.5 – 7.0	≤ 0.25	≥ 275	1.9	≤ 100	≤ 15	○ Intumescent Paint & Coatings ○ Sealants ○ Thermoplastics PP/PE ○ Thermoset (Epoxy, PU, UP)
ThorcoFlame APP202	≥ 28	≥ 15.5	5.5 – 7.5	≤ 0.25	≥ 300		≤ 20	≤ 15	○ Outdoor Paint & Coatings ○ Flexible PU
ThorcoFlame APP203	≥ 28	≥ 18	5.5 – 8.5	≤ 0.25	≥ 300		≤ 20	≤ 15	○ Thermoplastics PP/PE ○ Flexible PU
ThorcoFlame APP204	≥ 28	≥ 14	6.0 – 8.5	≤ 0.25	≥ 300		≤ 20	≤ 15	○ Car inner textile coating ○ Electronic Coating
ThorcoFlame APP205	≥ 28	≥ 18	5.5 – 7.0	≤ 0.25	≥ 300		≤ 20	≤ 15	○ Intumescent Coatings ○ Textile
	CAS:	**Appearance**	**Moisture %**	**Ash, wt%**	**Particle Size (um)**	**Melting Point**			
Melamine (Micronized)									
ThorcoFlame Melamine F40	108-78-1	White Powder	0.1max	0.03max	40max				
ThorcoFlame Penta D40	126-58-9	White Powder		0.05max	40max	215C min			
Penta (Micronized)									
ThorcoFlame Penta M40	115-77-5	White Powder		0.1max	40max	240C min			

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