

SYNTHETIC HYDROTALCITE

HALOGEN ACID SCAVENGER & STABILIZER

HISORB 1

Product Description	
Chemical Description	Magnesium Aluminium Hydroxide Carbonate
Chemical Formula	$Mg_6Al_2(OH)_{16}CO_3 \cdot 4H_2O$
CAS No	11097-59-9

Application & Advantages	
HISORB 1 acts as an excellent CoStabilizer for PVC and other Resins Polyolifins	
<ul style="list-style-type: none"> • High Heat Stability • Safe (Approved for food contact) • Polymer yellowing is suppressed, No stearic vapour problem • Reduction of water carry -over • Negligible impact on mechanical strength, Sulphide free • Very good Heat stability in combination with Zn-St & Ca-St. • Very good Heat stability in combination with Tin-mercaptop • Suitable for Rigid and flexible 	

Technical Data		
Appearance	Fine White Powder	
Loss on Drying (%)	< 1	@ 105°C / 4 Hrs.
Al ₂ O ₃ (%)	16 - 23	By titration
MgO (%)	25 - 33	By titration
Avg. Particle Size (µm)	< 1	Laser Diffraction

Regulations	
Germany BfR recom. IX	Compliant
USA (FDA) GRAS	Listed
Food Contact Materials (EU)	PM/REF No.34690
CONEG, EC 94/62	Compliant
ROHS, 2002/95/E, 2005/618/EC	Compliant
End of Life Vehicles, 2000/53/EC, 2002/525/EC	Compliant

HISORB 4A

Product Description	
Chemical Description	Magnesium Aluminum Hydroxide Carbonate
Chemical Formula	$Mg_6Al_2(OH)_{16}CO_3 \cdot 4H_2O$
CAS No	110097-59-9
EC No	234-319-3

Application & Advantages	
HISORB 4A acts as Excellent Halogen scavenger, stabilizer for Polyolefines produced with Ziegler-Natta, Friedel Craftsor other acid catalysts and acid acceptor for EVA, Halogenated Rubber etc.HISORB 4A is having following advantages.	
<ul style="list-style-type: none"> • Safe (Approved for food contact) • Non-Kosher/Non-Halal offending coatings available • Efficient (Applications require only small dosages) • Polymer yellowing is suppressed, No stearic vapour problem • Reduction of water carry-over 	

Technical Data		
Appearance	Fine White Powder	
Density [g/cm ³]	2.0	DIN EN ISO 787-10
Specific Surface [m ² /g]	5 - 15	BET
pH (5%)	8 - 9.5	5% Ethanol in Water
Oil Absorption[ml/100g]	35 - 45	DIN EN ISO 787-5
Loss on ignition(%)	43.5 - 45.0	@ 800°C / 4 Hrs.
Loss on Drying(%)	<0.5	@ 105°C / 4 Hrs.
Al ₂ O ₃ (%)	19 - 23	By titration
MgO(%)	30-35	By titration
Particle Size(µm)	80% < 1, 100% < 5	Laser Diffraction

Regulations	
Germany BfR recom. IX	Compliant
APME AP 89/1	Compliant
USA (FDA) GRAS	Listed
Food Contact Materials (EU)	PM/REF No.34690
Toys Europe EN 71-3	Compliant
Toys USA ASTM F 94/62	Compliant
CONEG, EC 94/62	Compliant
RoHS,2002/95/E, 2005/618/EC	Compliant
End of Life Vehicles, 2000/53/EC, 2002/525/EC	Compliant

PACKING • 25kg LDPE Bags with inside liner • Different types of packaging are available on request

