

CLC 120

Description

DOOBON Hydrotalcite, CLC-120, is commonly used as acid neutralizers for polyolefin and other polymers. It has exchangeable anions that can deactivate residual chloride ion from Ziegler-Natta, Friedel-Craft or other acid polymerization catalysts.

This is achieved by exchanging carbonate anions for chloride ions and fixing the latter in a stable crystalline structure.

Structure

$Mg_4Al_2(OH)_{12}CO_3 \cdot 3H_2O$

Appearance

Fine, white powder

Specifications

Particle Size < 1.0 μm	% (Vol)	Min 85
> 5.0 μm	% (Vol)	Max 0.5
Heavy Metals	ppm	Max 10
MgO	%	33 ~ 35
Al₂O₃	%	20 ~ 22
Molar Ratio MgO/Al₂O₃	-	3.5 ~ 5.0
Drying Loss(105°C/1hr)	%	Max 0.5
Iron(Fe)	ppm	Max 100
Bulk Density	g/ml	0.3 ~ 0.5

Handling

Packaging	Paper Bags, PE inner liner, 20 kg net
Storage	Cool, Dry and well ventilated area at room temperature

* For additional handling and toxicological information, consult the DOOBON Material Safety Data Sheet.

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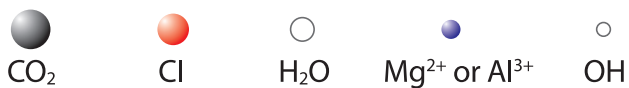
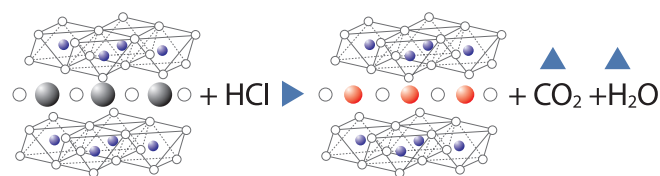
Hydrotalcite is...?

↔ Inactivation of Hydrotalcite to residue Catalyst

MCl_x (Residue Catalyst for Polymerization)



$Mg_{1-x}Al_x(OH)_2(CO_3)_{x/2} \cdot nH_2O$ (CLC-120 Hydrotalcite)



Residual Catalyst make

1. reducing heat stability
2. a mold corrosion of mold surface
3. high processing pressure and fish-eye

↔ Fields of CLC-120

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|------------------------|--|
| Film insulator | Maintain the thermal insulation ability by adding 1-20 part in ratio of resin agriculture film for PE, PP, EVA etc. |
| Fume capture | For assisting flame retardant. When it is added to polymer, prevents and absorb fume of halogen from flame retardants. |
| Heat stabilizer | Heat stabilizer for PVC, PVDC, Heat and ultraviolet resistant. |
| Acid acceptor | Halogen containing rubber, pharmacy, medical treatment and textile. |

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