

製品案内書

LDH(Layered double hydroxide)



DANSUK INDUSTRIAL. CO., LTD.

DNT-09

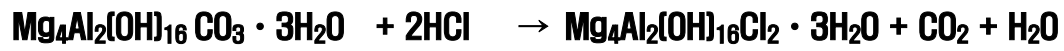
1. Properties

ITEM	Spec.	REMARK
Appearance	White odorless fine powder	
Chemical Formula	$\text{Mg}_4\text{Al}_2(\text{OH})_{12}\text{CO}_3\cdot 3\text{H}_2\text{O}$	
Moisture Content (%)	0.5 max	
MgO/Al ₂ O ₃ Mole Ratio	4.3 ± 0.2	
Particle Size (D50, μm)	5.0 max	
Particle Shape	Platelike	
Specific Surface Area (m ² /g)	10 ~ 12	
Bulk Density (g/cc)	0.2 ~ 0.4	
Refraction Index	1.5	
Fe Content (ppm)	100 max	
Heavy Metal Content (ppm)	50 max	

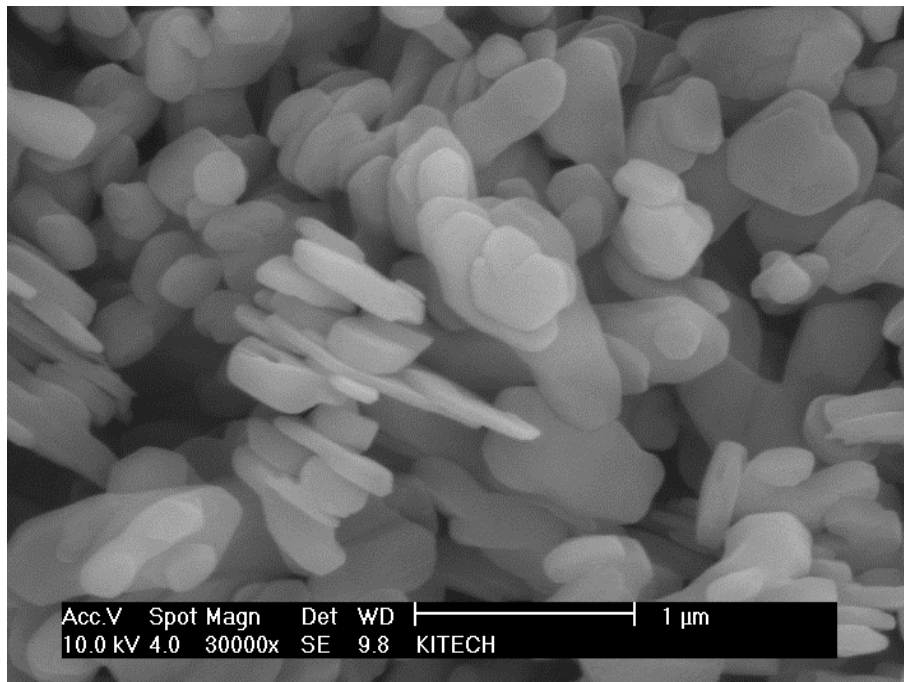
2. Advantages

- High insulation for cable
- High transparency
- Good heat stability
- Acid-adsorption(Traps and deactivates HCl by an anion exchanges reaction)
- Good dispersion characteristics
- Suitable for all resins

3. Mechanism of Acid-adsorption on Hydrotalcite



4. SEM Image of DNT-09



5. Application

- Chloride scavenger
- Agricultural film
- Heat stabilizer for PVC
- Flame retardant for cable compound