



HONG-CHEM CO., LTD.



COMPANY

INTRODUCTION

HONG-CHEM CO., LTD. locates in Liaoning Province CHINA. Our company has been committed to wollastonite field since 2009.

To make full use of local wollastonite resources, we are constantly studying and developing wollastonite manufacturing technique day by day. At present, we can supply acicular wollastonite, wollastonite powder, wollastonite lump as customers' request. Products are used in Ceramic, Glaze, Paint and Coatings, Rubber and Reisin, Paper making, Metallurgy, Refractory and other fields.

HONG-CHEM CO., LTD. puts great attention on the quality. We believe that good service and quality assurance can build long term cooperation!



PRODUCE CATEGORIES

1. Wollastonite powder

HG TYPE:

This type wollastonite is produced by raymond mill, particle size can be 100 to 400 mesh.

Usual type is HG-100, HG-200, HG-325 and HG-400.

INDEX	STANDARD	RESULT
SiO ₂ (%)	49-53	52.31
CaO (%)	43-45	43.58
Al ₂ O ₃ (%)	0.3 max	0.26
Fe ₂ O ₃ (%)	0.3 max	0.28
TiO ₂ (%)	0.02 max	0.01
MgO (%)	2.0 max	1.61
S (%)	0.02 max	0.01
P (%)	0.007 max	0.004
L.O.I (1050°C) (%)	2 max	1.85
Whiteness	90 min	91.75
Particle size (%)	325 mesh	95 pass



HGF TYPE:

This type wollastonite is produced by air flow ultra-fine grinder, the finest power size can be 2500 mesh.

This product is mainly used in high-grade coatings, high-standard paper, high polymer high-tech engineering plastics, high-grade porcelain glaze and other industries.

HGFE TYPE:

HGFE' s feature is lower content of Fe.

Besides, whiteness is also whiter than HG normal type, and it is suitable to be used in glaze field.

Product features: the product has low iron (Fe₂O₃:0.15% max), high whiteness (Whiteness:91 min).

INDEX	STANDARD	RESULT
SiO ₂ (%)	49-53	50.04
CaO (%)	42-45	43.49
Al ₂ O ₃ (%)	0.3 max	0.26
Fe ₂ O ₃ (%)	0.15 max	0.11
TiO ₂ (%)	0.02 max	0.01
MgO (%)	2.0 max	1.28
S (%)	0.02 max	0.01
P (%)	0.007 max	0.004
L.O.I (1050°C) (%)	5.0 max	4.1
Whiteness	91 min	91.87

2. Acicular wollastonite.

High quality acicular wollastonite is processed by special equipment and advanced technology. The ideal aspect ratio (15-20:1). It has good reinforcing, sealing and wear resistance. It can replace fibre talc, asbestos, glass fibre and so on. It is widely used in building materials, paper industry, rubber plastics, friction sealing materials, insulation materials, environmental engineering and fiberglass reinforced plastics and other polymer materials industries. It can improve the strength, hardness, heat resistance, flexure resistance, corrosion resistance and aging resistance of products.

HC TYPE:

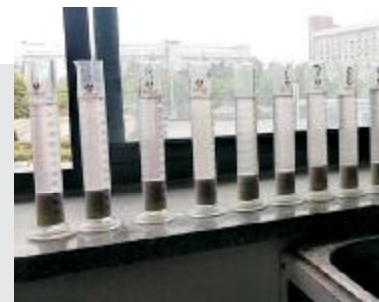
This type wollastonite is identified by sedimentation value.

Value range can be from 60 to 90, or produced by customer' s request.

Sedimentation test:

Take a measuring cylinder over 230 CC and add a small amount of water. Weigh 30 grams of wollastonite sample, pour into measuring cylinder and add water to 200 CC.

Shake the measuring cylinder vigorously until even and then rest horizontally for 10 minutes, the scale of powder in the measuring cylinder is the settlement value.



HD Type:

This type wollastonite is identified by particle size, and we use D50 as standard. The finest powder can be "D50: 5 μ m max" . it is around 2500 mesh, and Average Aspect Ratio(L/D) is 12:1. We name it HD-2500.

Size information of HD-2500 type:

Item	Unit	Result
Appearance		White acicular powder
Gravity		2.71
Bulk Density(Loose)	g/ml	0.20
D50	μ m	4.3
D90	μ m	14.9
Average Fiber Length	μ m	64.9
Average Fiber Diameter	μ m	5.3
Average L/D Ratio		12:1



3. Surface Treated Wollastonite

Wollastonite powder is a hydrophilic mineral and has poor compatibility with organic polymers. Our company has successfully developed Surface treated wollastonite by continuously testing and improving. Through selecting suitable coupling agent to act on wollastonite powder, it can change the surface properties of wollastonite powder.

Surface treated wollastonite has good dispersibility and fluidity, it can bind quickly to organic polymers and improves the mechanical properties of the composites.

Surface treated wollastonite is mainly used in PP, PA, PP6 (6), PTEE and other engineering plastics to replace glass fibre.

In PP producing, it can replace fiberglass as reinforcing material and reduce the cost by 25%. At the same time, it can improve the mechanical properties and aging resistance of plastic products.





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