

Transparent ZnO(H)

台翔透明氧化锌 (H)

PRODUCT DESCRIPTION (产品特性)

Transparent ZnO(H) is an accelerator activator of extremely fine particle size, particularly suited for transparent rubber goods. It can be employed in natural and synthetic rubbers and also as an acid acceptor in polychloroprene adhesives where transparency is required. Transparent ZnO(H) comes with the powder.

台翔透明氧化锌 (H)可使用于天然及人造橡胶中做为透明橡胶制品的硫化活化剂，也可使用于聚氯丁二烯透明橡胶接着剂的受酸体。台翔透明氧化锌 (H)产品形态为粉状。

ADVANTAGES (产品优势)

Wet process transparent ZnO(H) with optimized finer particle size to match the refraction index of rubber so that the cured rubber is with gum rubber transparency. Low heavy metal contents, good aging and color stability rubber articles

湿法制程透明氧化锌(H)具有近似橡胶折光率的粒径大小，硫化胶具有生胶色的透明度。重金属含量低，硫化胶老化性能佳，色泽稳定。

PROPERTIES (物性)

Appearance/ 外观	White powder/ 白色粉末
Chemical Analysis / 化学成份	%
ZnO 氧化锌	Exclusive/ 台翔自有专利
Pb 铅	≤0.010
Cd 镉	≤0.005
Cu 铜	≤0.001

Taiwan R.O.C.

Tel : +886(49)2251015

Fax: +886(49)2251014

China (ShenZhen)

Tel : +86(755)27126057

Fax: +86(755)27126074

China (QingYuan)

Tel : +86(763)3105816

Fax: +86(763)3105818

Mn 锰	≤0.001
Specific Gravity/比重 (g/cm ³)	Approx. 3.5
Volatility/挥发度 (105°C/2hr)	< 3.5%
Storage Stability/储存期	Two year under normal storage conditions/ 在良好的保存环境下可保存两年
Packing/包装	20 kg per paper bag/20 公斤纸袋

RECOMMENDATIONS AND APPLICATIONS (应用范围及效果)

It is known that the physicochemical properties of solids in particulate form are influenced by the size and shape of the particles. As particle size of solids diminishes in scale, there is an enhancement of properties, and often the inception of new properties. Investigators are finding that nanostructural materials can exhibit unique mechanical, electronic and optical properties.

众所周知，固体粒径大小及形状影响其物理化学特性。随着粒径的缩小通常伴随着新物理现象的产生。

科研人员发现奈米结构材料具有特殊的机械、电气及光学性质。

For example, by reducing the particle size of zinc oxide to below wavelength of visible light, visible light could transmit through zinc oxide thereby causing it to appear virtually transparent when dispersed in cured rubber. Transparent ZnO(H) was developed with optimized finer particle size to match the refraction index of rubber so that the cured rubber is with gum rubber transparency. Unlike most other transparent ZnO(H), which usually results in opaque transparent vulcanizates, the application of Transparent ZnO(H) could have savings in pigment dosage in colored transparent rubber products.

譬如，当氧化锌粒径小于可见光的波长时，可见光可穿透硫化胶中的氧化锌而呈现透明硫化胶。台翔

透明氧化锌 (H)具有近似橡胶折光率的粒径大小，因此使用台翔透明氧化锌 (H)的硫化胶具有生胶色

的透明度。这与其他工艺生产的透明氧化锌的白露状透明度大为不同。与台翔透明氧化锌 (H)生胶色

透明度相比，使用其他工艺生产的氧化锌需在艳色透明胶料中追加色料剂量以遮闭其白露透明度。

Taiwan R.O.C.

Tel : +886(49)2251015

Fax: +886(49)2251014

China (ShenZhen)

Tel : +86(755)27126057

Fax: +86(755)27126074

China (QingYuan)

Tel : +86(763)3105816

Fax: +86(763)3105818

Our pre-dispersed granulating process, unlike industrial common pelleting technique, does not involve grinding and hardening. Thus the good dispersion capability can be preserved. Rubber vulcanized with good dispersion transparent zinc oxide is usually with better physical properties (higher tensile strength, tear strength, better heat build up reduction). Transparent ZnO(H) has been developed to provide improved handling properties.

独特的粉体造粒技术，不使用研磨及挤压，因此良好的分散性被保存。采用分散性良好的台翔透明氧化锌®(H)可提高胶料的抗张强度、撕裂强度和热导性。

DOSAGE (使用剂量)

We recommend trying initially to Transparent ZnO(H) at 3-6phr.

台翔透明氧化锌 (H)使用量应介于 3.0 到 6.0phr.

MANUFACTURER (生产厂商)

Foundry Chemical Inc. TaiXiang Rubber Division	台翔化工 台翔橡胶
LiSongLang Industrial Area, GongMing Town, ShenZhen, China	深圳市公明镇李松朗工业区
Phone: +86-755-27126057 Fax: +86-755-27126074 sales@foundrychemical.com.cn	

IMPORTANT NOTE (备注)

TaiXiang has sought to correct the above information, the information and data for reference purposes only. Concrete information please keeps the standard of testing the kinds.

台翔公司对上述资料已力求正确，各项资料数据仅供参考，具体以实物检测为准。