

VulcaMix® 1#-GR

预分散台翔药胶 1#-GR

PRE-DISPERSED POLYMER BOUND

PRODUCT DESCRIPTION (产品特性)

VulcaMix® #1-GR is a sophisticated dedicated blend that precludes the sources of all carcinogenic N-nitrosamines, and do so without causing blooming problem. It has been used to replace traditional DM accelerator with better light fastness and superior cure characteristics among leading shoe sole factories. VulcaMix® #1-GR comes with the pre-dispersed polymer bound form for better handling and dustless work environment.

台翔1号® 促进剂在硫化过程中不产生致癌的亚硝胺。品牌鞋底大厂使用台翔1号® 促进剂取代传统MBTS (DM) 以提供较好的耐黄性能; 同时又可降低硫化胶吐霜的发生。台翔1号® 促进剂产品形态为预分散母胶粒; 操作性良好无粉尘污染。

ADVANTAGES (产品优势)

- Medium-to-Fast accelerators with scorch safety
- Equal or superior cured rubber physical properties than MBTS (DM) accelerator
- Better QUV light fastness than MBTS(DM) accelerator
- Less blooming than MBTS (DM) accelerator, no staining
- Competitive price for replacement of MBTS(DM) powder accelerator

- No formation of carcinogenic nitrosamine
- Pre-dispersed polymer bound granulates for fast incorporation and easy dispersion
- 具焦烧安全性的中高速促进剂
- 类似(或优于) MBTS (DM) 硫化胶的物性
- QUV 耐黄测试优于 MBTS (DM)
- 降低硫化胶吐霜的发生, 无色污染
- 价格与粉末 MBTS (DM) 促进剂比较具竞争力
- 硫化过程中不产生致癌的亚硝酸胺
- 预分散母胶粒混合迅速, 分散良好

PROPERTIES (物性)

Appearance: 外观	cream granules 淡米色颗粒
Specific Gravity (g/cm ³) 比重	Approx 1.35
Volatility (80°C/2hr) 挥发度	< 1.0%
Mooney Viscosity (ML 1+4 @50°C)	< 75

摩尼黏度	
Storage Stability 储存期	Two year under normal storage conditions. 在良好的保存环境下可保存二年
Packing 包装	25 kg in paper bag 25 公斤纸袋

RECOMMENDATIONS AND APPLICATIONS (应用范围及效果)

The shoe sole made with conventional accelerator system based upon MBTS (DM) suffers a color fading, yellowing, darkening or even physical degradation such as cracking or shrinking when exposed to the sunlight. Furthermore, due to the limited solubility, vulcanized cured with MBTS (DM) suffers blooming or frosting frequently from a warm, moist atmosphere.

传统使用 MBTS (DM) 促进硫化的胶底曝晒于日光的照射下容易褪色、老化、变黄，进而影响产品的外观和物理机械性能。同时在潮湿温热环境生产的硫化胶由于 MBTS (DM) 促进剂在胶料配方的低溶解度容易产生吐霜。

VulcaMix® #1-GR was developed to meet the emerging need from the rubber industry as an accelerator system to replace MBTS (DM) with better light fastness and to minimize blooming. In addition, polymer cured with VulcaMix® #1-GR are equal or superior in cure characteristics and physical properties compared to traditionally MBTS (DM) cured stocks.

台翔1号®促进剂是针对鞋底耐黄变抗吐霜要求所研发。它能取代传统MBTS (DM) 促进剂。操作时提供正常的硫化曲线。生产出来的硫化胶又能保有良好的物理性能，不易吐霜。

VulcaMix® #1-GR is very efficient and confers good processing safety to the rubber compounds, and intermediate vulcanization. It is used preferably in combination with other accelerators, for example, thiuram or sulfenamide to have a secondary acceleration (fast cure) and activation (higher modulus). Besides, with the addition of secondary accelerators, the desired cure characteristics and physical properties can also be adjusted for different rubber processing needs. For example, the combination of VulcaMix® #1-GR and thiuram is important for efficient outsole manufacturing that needs faster vulcanization. On the other hand, long scorch time and a fast full cure can be obtained with the addition of delay action sulfenamide so that it can be conveniently used in multi-color outsole formulation.

台翔1号®促进剂属于中快速促进剂。具有操作安全性及硫化效率。使用秋蘭姆 (TS) 或次磺酰胺 (CBS, NS) 做为二次促进剂能加快硫化速度与提高架桥密度。酌量增减二次促进剂的剂量，可以调整操作硫化时间以适应不同大底硫化时间及所需物性要求。当加入少量 TS 时，硫化时间大为缩短，适用于高效率大底生产制程。当加入 NS, CBS 做为二次促进剂时，焦烧迟延提高，硫化速度加快，同时架桥密度会大幅增加。良好的操作安全性完全适用于双色翻中板的配方。

With more and more emphasis being placed on safety in the workplace, attention is increasingly focused on nitrosamines-free crosslinking. VulcaMix® #1-GR precludes the sources of all carcinogenic N-nitrosamines and complies with regulations covering airborne during processing.

工业卫生和环保对硫化过程中不产生亚硝胺致癌物的要求日益增高，台翔 1 号®促进剂无毒无污染是最佳的选择。它是一种在硫化过程中不产生亚硝胺致癌物的促进剂系统。符合现场生产操作的环保要求。

DOSAGE (使用剂量)

Multi-color outsole formulation

We recommend trying initially VulcaMix® #1-GR 1.5-2.0phr in rubber composition with approx 1.5-2.0phr sulfur; By adding 0.2-0.5phr VulcaPellet® CBS-80 or NS (TBBS)-80 vulcanization can be scorch delayed with fast cure and higher cross-linking density. The long scorch time and a fast full cure can be conveniently used in multi-color outsole formulation.

Efficient outsole manufacturing

Approx VulcaMix® #1-GR 1.5-2.0phr in rubber composition with approx 1.5-2.0phr sulfur; by adding 0.1-0.3phr VulcaPellet® TS (TMTM)-80 vulcanization can be further accelerated and cross-linking yields increased.

双色翻中板的配方

于胶料中加入大约 1.5-2.0phr 台翔 1 号®促进剂和 1.5-2.0phr 硫磺；如再加入 0.2-0.5phr 台翔药胶® CBS-80 或 NS (TBBS)-80 做为二次促进剂，焦烧迟延提高，硫化速度加快，同时架桥密度会大幅增加。

高效率大底生产的配方

于胶料中加入大约 1.5-2.0phr 台翔 1 号®促进剂和 1.5-2.0phr 硫磺；如再加入 0.05-0.15phr 台翔药胶®TS-80 做为二次促进剂，能加快硫化速度，同时架桥密度会大幅增加。

MANUFACTURER (生产厂商)

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IMPORTANT NOTE (备注)

Tai Xiang has sought to correct the above information, The information and data for reference purposes only. Concrete information please keep 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。