



Technical Data Sheet (TDS)

Low Thermogenesis & Abrasion Resistant Agent LG-1520

Description:

LG-1520 agent consists of Nano-short fiber, Nano-gas phase silicon oxide and boron complex. The agent is a kind of new multi-functional material which produced by in-situ composite, weak bond suspended, active coated and diameter expanding of particle technologies.

Specification:

It is non-toxic, harmless to human and no environmental pollution.

Item	Specification	Test Method
Appearance	light grey powder	visual inspection
Heating loss (105°CX2h) ,%	≤2.0	HG/T3065
Ignition loss (800°CX2h),%	≤10.0	HG/T3066
pH Value	8.0~10.5	HG/T3067

Advantages:

1. It can reduce the porosity and improve the abrasion-resistance of rubber, then improve the compactness and abrasion-resistance of vulcanized rubber products.
2. This new material can reduce the thermogenesis of vulcanized rubber by 5% to 10%, and significantly improve the fatigue resistance of rubber.
3. It has excellent technologies. The new material has interfacial activity component, which can reduce the interfacial energy among all materials in formula. This will stabilize the dimension of rubber sheet and tires, and products surface will be smoother.

Usage and Dosage:

- 1) Add LG-1520 agent together with Zinc Oxide when mixing rubber master-batch.
- 2) 3~6 phr can be used for tire tread and sidewall, other formula is same as before or make slightly adjustment based on vulcanized speed.
- 3) For conveyer belt, please refer to the tire application.

Packing and Storage:

It is packed in Kraft paper bags lined with plastic film, net weight is 25kg/bag.

It should be stored in a cool, dry warehouse.

The shelf life is 24 months.