



# Products Show

## Rubber Antioxidant



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## COMPANY PROFILE

YuSheng Enterprise Limited established in 2001, committed to rubber industry raw materials production and sales for more than 20 years.

After years of development, Yusheng has become a professional supplier of raw materials of rubber products, selling and serving tire and rubber products manufacturers in Europe, South America, Southeast Asia, India, Pakistan, the Middle East and other regions.

Yusheng is having more than 160+ stable and long-term manufacturing bases, which can provide one-stop raw material services for manufacturers in rubber industry. We sincerely invite rubber professionals from all over the world to join our global supply chain service system and become our partner to achieve win-win development.



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# Antioxidant

## Product classification

- TMQ(RD)
- 4010NA(IPPD)
- 4020(6PPD)



# Antioxidant

TMQ(RD) specification :

GB/T8826-2011

NAME OF INDEX	TECHNICAL SPECIFICATIONS
Appearance	Amber to brown granulose
Softening point, °C ,min	80-100
Heating loss,% ,max	0.30
Ash content,% , max	0.45
Insoluble In ethanol,% ,max	0.20
Dimer,trimer,tetramer content,% ,min	40

Note: according to customers , standards if they have special requests or specifications.



# Antioxidant

## TMQ(RD) characteristics

This product is brown piece of amber, Density:1.05g/cm<sup>3</sup>. Soluble in benzene, chloroform, carbon disulfide and acetone, but not soluble in water. Fine solution with rubber. This product is combustible, when storing and transporting, always pay attention to fireproof and dampproof.

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# Antioxidant

## TMQ(RD) applications

RD is a very important category rubber antioxidant. It has a good protective effect for heat, oxygen and fatigue aging, and stronger inhibitory effect for metal catalytic oxidation, no spray cream phenomenon, widely used in the manufacture of tyres, motorcycle tyres, bicycle tyres, rubber, plastic, adhesive tape, wires, cables and other rubber products.



# Antioxidant

## TMQ(RD) packing :

In knitted bag lined with plastic bag or kraft paper bag.25kgs/bag or at buyers' request.





# Antioxidant

4010NA(IPPD) specification:

GB/T8828 -2003

NAME OF INDEX	TECHNICAL SPECIFICATIONS
Appearance	Grey purple to puce granular solids
Purity, % ,min	95.0
Melting point, °C , min	70.0
Heating Loss, % ,max	0.50
Ash content , % , max	0.30





# Antioxidant

## 4010NA(1PPD) characteristics

Pure 1PPD is white crystal, density:1.14g/cm<sup>3</sup> , melting point: 80.5°C. Soluble in acetone, ethyl acetate, carbon tetrachloride , carbon disulfide ethyl alcohol, insoluble in water.

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# Antioxidant

## 4010NA(IPP) applications

This product is a polluting antioxidants, is one of the amine stabilizer with the high performance general purpose anti-aged, has excellent antioxidant, anti-ozone, anti-flex crack, anti-insolation cracks, strong inhibition on copper or manganese and other toxic metals, applicable to all types of synthetic rubber and natural rubber. With good indispensability in sizing material and little effect on vulcanization, it can be used for tires and other kinds of rubber products, also can be used as heat oxygen stabilizer for polyethylene, polypropylene and acrylic resin.



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# Antioxidant

4010NA(IPPD) packing:

In kraft paper bag. 25Kg/bag or by buyers' request .





# Antioxidant

4020NA(6PPD) specification:

GB/T21841-2008

NAME OF INDEX	TECHNICAL SPECIFICATIONS
Appearance	Purple brown to dark brown granules or flakes
Assay, % ,min (Area normalization method)	96.0
Freezing point, °C , min	45.0
Heating Loss, % ,max	0.40
Ash content , %, max	0.15



# Antioxidant

## 4020NA(6PPD) characteristics

Pure 6PPD is white solid product, and will gradually oxidize to brown solid when exposed to the air. Industrial product 6PPD is purple brown to black brown granules or flakes, and will slowly cake when the temperature exceeds 35-40°C .Soluble in gasoline, benzene, acetone, ethyl acetate, hydrochloride, carbon tetra chloride ,methyl benzene, ethyl alcohol and other organic solvents, insoluble in water.

# Antioxidant

## 4020NA(6PPD) applications

As a kind of ursol rubber antioxidant, 6PPD has better compatibility with rubbers, seldom blooming, low volatility, low toxicity, with excellent antioxidant, anti-ozone, anti-flex cracks , anti-insolation cracks, strong inhibition on copper or manganese and other toxic metals, applicable to all types of synthetic rubber and natural rubber. With good dispensability in sizing material and little effect on vulcanization, it can soften sizing material, so can be used for tires and other kinds of rubber products, also can be used as heat oxygen stabilizer for polyethylene, polypropylene and acrylic resin.



# Antioxidant

4020NA(6PPD) packing:

N.W. 20kg/bag, or N.W. 25Kg/bag, packed with kraft paper bag .





# Trustworthy Partner of Rubber Raw Materials

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