

Polymerized 2,2,4-Trimethyl-1,2-dihydroquinoline (TMQ)

Amine-type rubber antioxidant for resistance to heat and oxidative ageing in qualified rubber compounds.

CAS No. 26780-96-1	EC / List No. 500-051-3	Transport Non-dangerous goods
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Product Information

Amine-type rubber antioxidant for resistance to heat and oxidative ageing in qualified rubber compounds.

Specifications

Parameter	Specification
Appearance	Amber to brown granules
Softening point	80–100 °C
Heating loss	≤0.30 %
Ash	≤0.30 %
Ethanol-insoluble material	≤0.20 %
Dimer + trimer + tetramer	≥40 %
Density, typical	Approximately 1.05 g/cm ³

Grade-specific supply limits. The agreed specification and batch COA govern delivery.

Typical Properties

Property	Typical Value
Molecular formula	(C ₁₂ H ₁₅ N) _n
Molecular weight	173.26 g/mol (repeat unit)

Applications

Tyres and heavy-duty rubber compounds: Antioxidant for heat and oxidative ageing resistance in selected natural and synthetic rubber compounds.

Industrial hoses, belts and seals: Ingredient for technically supervised development of industrial rubber articles.

Cable and technical rubber products: Heat-ageing additive for qualified cable and technical rubber formulations.

Packaging / Storage

Item	Information
Packing	25 kg bags
Storage	Store tightly closed in a cool, dry and well-ventilated place. Protect from moisture, excessive heat and ignition sources. Segregate from strong oxidizers, strong acids and strong bases.
Handling	Control airborne dust with effective local extraction. Avoid dust accumulation, sparks and static discharge; use suitable non-sparking collection tools. Wear protective gloves, goggles and work clothing, and use suitable respiratory protection when the exposure assessment requires it.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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