



# Antioxidant

- Composition Specification
- 2,2,4-trimethyl-1,2-dihydroquinoline

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Color	:	Light Brown to Brown
Appearance	:	Granules/Powder
Softening Point	:	80 – 95 ∘C
Ash content	:	0.5 % Max
Heat Loss	:	0.5 % Max

### Dosage

## • 0.5 – 1.5 phr

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### Uses and Benefits

- Pentonox TDQ is an inexpensive and highly potent staining type antioxidant most widely used in the rubber com-pounds based on NR, IR, SBR, BR, NBR and other diene rubbers except CR (polychloroprene).
- Pentonox TDQ being a polymerized resinous antioxidant in 'Granules/Powder form, is easy to handle and disperses well in rubber compounds at normal processing temperatures.
- Pentonox TDQ is classified as a staining type, low volatility, and polymeric antioxidant with very high potency.
- Pentonox TDQ offers excellent long term protection to rubber vulcanizates against oxidative ageing at ambient as well as elevated temperatures.
- Pentonox TDQ offers protection against degradation caused by ozone under static as well as dynamic conditions and it does not contribute to flex fatigue resistance and hence generally used in combination with para phenylenediamine class antidegradants.
- Pentonox TDQ does not bloom even at higher dosages or influence the processing, scorch and cure characteristics of rubber compounds.
- Pentonox TDQ offers cost advantage since only small dosage is sufficient to obtain desired long term protection against heat and oxidative ageing as well as reversion resistance during over cure.
- Pentonox TDQ does not interfere during organic peroxide based cross linking of NR, SBR, NBR, EPDM, etc. for specialty applications and it can be used to reduce the 'frosting' caused during hot air curing of peroxide cured products.
- Pentonox TDQ activates scorch and cure of polychloroprene based compounds affecting storage stability and mould flow times.
- Pentonox TDQ does not affect the rubber to textile / metal adhesion / bonding properties and thus is an ideal antioxidant for rubber compounds where tack retention and bond strength are of primary importance.

Packing		25kg Polylinedpolywoven bag / Polylined paper bag.
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- **Storage stability** : Upto 1 year in normal storage conditions.
- Handling

# PUKHRAJ ADDITIVES LLP

handling information for Pentonox - TDQ.

: Consult material safety data sheet (MSDS) for additional

#### An ISO 9001:2008 Certified Company

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