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RUBBER CHEMICALS
-ANTIOZONANTS-

ANTIOZONANT PD-1

DESCRIPTION:

Antiozonant PD-1 is a n-isopropyl-n'-phenyl-p-phenylene diamine. It is recommended for use in rubber compounds as a general purpose antiozonant with antioxidant properties. It also exhibits copper and manganese inhibitor properties.

TYPICAL PROPERTIES:

Appearance	gray to dark brown granules
Specific Gravity.	1.17
Melting Point.	75°C (167°F)
Dispersion	optimum at mixing temperatures above 200°F.

Antiozonant PD-1 is soluble in benzene, carbon tetra chloride, ethyl acetate, methylene chloride, acetone, and ethyl alcohol, but insoluble in water.

GENERAL RECOMMENDATIONS:

Antiozonant PD-1 is effective as an antioxidant, antiozonant and antiflexcracking inhibitor at 1.0 - 3.5 phr levels in natural rubber, SBR, NBR, and polybutadiene. In polychloroprene, it is effective at a lower concentration of 0.4 - 1.5 phr. Antiozonant PD-1 does discolor and stain and could exhibit a slight viscosity stiffening depending on type of carbon black used. It also activates cure systems using CBTS and MBTS.

Protection against antiflexcracking is better than Antiozonant PD-2. For protection against oxidation and heat, it is better than Antiozonant PD-2 and highly effective in equal ratio with Antioxidant PANA.

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