

RUBBER CHEMICALS -ANTIOXIDANTSSTAINING

PANA

DESCRIPTION:

PANA is N-phenyl-a-naphthylamine, a powerful general-purpose antioxidant with high solubility in rubber, petroleum products, and synthetic lubricants. It is an excellent antioxidant and an effective antiflex cracking agent.

TYPICAL PROPERTIES:

Appearance	yellow to tan crystalline flake or pellet
Specific Gravity	1.16
Melting Point	60 – 62°C (140 – 144°F)
Storage Stability	excellent but will darken over time which does not alter the activity or effectiveness

GENERAL RECOMMENDATIONS:

Should be used in rubber products for protection against oxidation and thermal conditions, as well as anti-flex cracking under dynamic stress. Useful in compounds based on natural rubber, polyisoprene, SBR, NBR, polybutadiene and polychloroprene where discoloration or staining can be tolerated. PANA, however, is non-blooming and has no affect on cure with a very slight affect on polymer viscosity. PANA is an antioxidant so does not exhibit antiozonant qualities; however, when used with Akrochem Antiozonant PD-1, PD-2, or MPD-100, this property can be enhanced. In a general rubber compound, 1.0 - 2.0 phr antioxidant is recommended. However, where anti-flex cracking properties are of importance, the use 2.0 - 3.5 phr of PANA is suggested or use 2.0 phr PANA in conjunction with 2.0 phr Antiozonant PD-1.

rh 2/22/23 t-pana, (# 03765)