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## RUBBER CHEMICALS -RETARDERS-

### RETARDER AK

#### TYPICAL PROPERTIES:

Composition.....	Modified Phthalic Anhydride (non-dusting)
Appearance .....	White free flowing powder
Odor .....	Practically none
Specific Gravity .....	1.45 - 1.52
Fineness (dry method) .....	1.0% max. retained (100 mesh) 15.0% max. retained (200 mesh)
Moisture .....	0.5% max.
Ash .....	0.5% max.
Melting Range.....	123 - 132°C
Solubility.....	Soluble in alcohol, benzene, and acetone. Slightly soluble in water.
Storage Stability.....	Excellent
Toxicity .....	Not considered hazardous for normal industrial use.

#### APPLICATIONS:

- A non-discoloring retarding agent to reduce scorching of rubber compounds at processing temperatures.
- Effective with most accelerator systems and most types of rubber. Most effective with thiazole accelerated systems.
- Use from 0.5 to 1.0 phr on rubber hydrocarbon.
- Has little or no retarding effect at curing temperatures and no significant effect on physical properties of cured stock. Modifier added increases cure rate over straight phthalic anhydride.
- Has no effect on plasticity and aging and does not bloom with recommended amounts.
- Acts as an activator for certain blowing agents.
- Reduces reversion of natural rubber cures.

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