

ROYALAC™ 150 curing agent

Ultra-Accelerator



Contact
 (330) 535-2100 (800) 321-2260
 Fax (330) 535-8947
 info@akrochem.com / www.akrochem.com

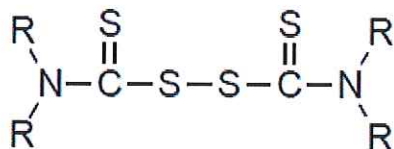
Description

ROYALAC™ 150 curing agent is an innovative rubber chemical developed by Uniroyal Chemical and now part of Addivant's™ Antioxidant & UV Stabilizer Solutions business. It is an ultra accelerator for natural and synthetic rubbers. **ROYALAC™ 150 curing agent** offers a variety of common features that are similar to other thiuram disulfide type accelerators such as faster cure and good aging properties. Unique properties to **ROYALAC™ 150 curing agent** are improved scorch safety, high elongation, and freedom from bloom. Additionally, articles cured with **ROYALAC™ 150 curing agent** do NOT emit nitrosamines. **ROYALAC™ 150 curing agent** is available as a liquid or as a 70% active powder.

Chemical Structure

Tetraalkyl thiuram disulfide

ROYALAC™ 150 curing agent



Typical physical properties of ROYALAC™ 150 curing agent

Property	Specification	Typical
Color and Appearance	amber to brown liquid	
Assay	82 to 90%	85-86%
Methanol	0.3% maximum	Trace - 0.2%
Flash Point	80 °C minimum	>100 °C
Specific Gravity		0.925

Typical physical properties of powder version of ROYALAC™ 150 curing agent

Color and Appearance	Off white-tan powder
Assay (% active)	68% to 72%
Specific Gravity	1.34-1.36

Applications

ROYALAC™ 150 curing agent is effective in a variety of applications. It is an ultra-accelerator and sulfur donor for unsaturated elastomers such as NR, SBR, BR, EPDM and NBR. Vulcanizates using **ROYALAC™ 150 curing agent** as a partial replacement for sulfur have outstanding high temperature aging properties. **ROYALAC™ 150 curing agent** has been shown to be successful in co-curing polymer blends of EPDM and NBR as well as SBR/BR blends. **ROYALAC™ 150 curing agent** is more soluble than other accelerators and is non-blooming even up to 5-7 phr in EPDM. Due to the fact that **ROYALAC™ 150 curing agent** increases cure rate without sacrificing scorch safety, the addition of **ROYALAC™ 150 curing agent** can be used to increase productivity. Mounting health and safety concerns, both domestic and abroad, make **ROYALAC™ 150 curing agent** a responsible choice as nitrosamines are not emitted with its use. Better still, **ROYALAC™ 150 curing agent** is economical compared to other non-nitrosamine ultra-accelerators. **ROYALAC™ 150 curing agent** has found utility in rubber compounds for tires, mechanical goods, dense profiles and sponge extrusions.

Solubility

Soluble	Insoluble
Toluene	Water
Hydrocarbon liquids	

Handling Precautions

Avoid all personal contact. OSHA (1910.1200) rating as irritant. Observe good personal hygiene. Keep away from flames and sparks.

Storage Stability

Good when stored in a dry area, in closed containers, away from sources of heat.

For additional handling and toxicological information please consult the SI Group Material Safety Data Sheet.