

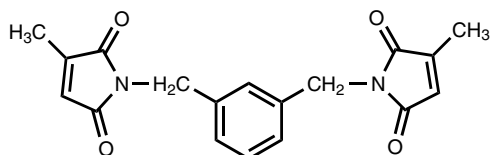
Product Data

PERKALINK 900

1,3-Bis(citraconimidomethyl)benzene

CAS Reg. No.: 119462-56-5

Molecular weight: 324



FUNCTION

Perkalink 900 is an antireversion agent which provides long term heat stability in sulfur vulcanized compounds by substituting stable, flexible carbon-carbon crosslinks for the sulfur crosslinks that are destroyed by reversion in the mold or during product service life.

MAJOR APPLICATIONS AND PROPERTIES

- Perkalink 900 is used in most sulfur vulcanized polymers such as NR, IR, SBR, BR or blends of these elastomers to provide improved reversion resistance on overcure.
- Perkalink 900 is used to allow the use of higher curing temperature for improved productivity without sacrificing performance properties.
- Perkalink 900 is used to control heat buildup and thermal degradation during product service life by maintaining crosslink density through the generation of thermally stable carbon-carbon crosslinks which compensates for the loss of reverted sulfur crosslinks.
- Perkalink 900 is used in high sulfur skim compounds to provide reduced heat generation and retention of adhesion to brass plated steel reinforcing materials as well as enhanced thermal aging resistance.
- Perkalink 900 is used in Exxpro bladder to reduce or eliminate sulfur, thus overcoming mold fouling.
- Perkalink 900 is regulated for use in articles in contact with food as specified under BgVV XXI, Category 4. Perkalink 900 is not regulated for use in FDA food contact applications.

COMPOUNDING INFORMATION

Perkalink 900 is not reactive during the initial stages of vulcanization. Scorch and cure time are therefore not affected. This means that it can be added without making other compound or process modifications. Perkalink 900 begins to work when sulfur crosslinks are being destroyed (on overcure or under elevated temperatures during service life). It is therefore most effective in compounds that are sensitive to thermal degradation.

The dosage level of Perkalink 900 needs to be optimized based on the expected degree of reversion (as determined by the accelerator/sulfur ratio). As a starting point, we recommend that the following dosages be used:

Efficient to semi-efficient cure systems	: 0.25 - 0.4 phr
Semi-efficient cure systems	: ≤0.5 phr
Conventional cure systems	: ≤0.75 phr
High sulfur compounds	: ≤0.75 phr

We recommend that Perkalink 900 be added to the rubber compound during the first (non-productive) mixing stage. Perkalink 900 has a melting point below 90°C so dispersion will not be a problem.

HANDLING PRECAUTIONS

For detailed information on toxicological properties and handling precautions please refer to the current Safety Data Sheet. This information sheet can be downloaded from our web site or requested from the nearest Flexsys office and should be consulted before handling this product.

STORAGE RECOMMENDATIONS

Store Perkalink 900 in a cool, dry, well ventilated area, avoiding exposure of the packaged product to direct sunlight.

PRODUCT INFORMATION

Perkalink 900 Product form	pst pastilles	
<u>PRODUCT SPECIFICATIONS</u>		<u>Test method</u>
Appearance	off white pastilles	FF97.5
Active components (%) min.	85.0	FCL95.5
Melting point, initial (°C) min.	75	FF83.9
Melting point, final (°C)	80-90	FF83.9
Heat loss (%) max.	0.5	FGr97.7
Ash (%) max.	0.3	FGr90.9
<u>TYPICAL PROPERTIES</u>		
Density at 20°C (kg/m ³)	1260-1280	
Bulk density (kg/m ³)	710-760	
Compacted bulk density (kg/m ³)	720-770	

For further information please contact your local Flexsys office or regional Flexsys headquarters:

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