



## Product Data

### PERKACIT DPTT

Dipentamethylenethiuram tetrasulfide

CAS Reg. No.: 120-54-7

Molecular weight: 385

### FUNCTION

Perkacit DPTT is used as primary or secondary accelerator or sulfur donor in most of the sulfur cured elastomers.

### MAJOR APPLICATIONS AND PROPERTIES

- Perkacit DPTT is an effective primary or secondary ultra accelerator or sulfur donor in IIR, CSM, EPDM, NR, IR, SBR and CR.
- Perkacit DPTT offers better processing safety and higher crosslink density than other thiurams and offers a lower reversion tendency and improved heat stability.
- Perkacit DPTT is particularly suitable for light colored stocks and is non-staining.
- It should be noted that in the application of Perkacit DPTT N-nitrosopiperidine can be formed by the reaction of piperidine, a decomposition product, with nitrosating agents (nitrogen oxides).
- Perkacit DPTT is regulated for use in articles in contact with food as specified under FDA 21 CFR 175.105, 175.300, 177.1210 and under BgVV XXI, Categories 1-4 and "Sonderkategorie".

### COMPOUNDING INFORMATION

In EPDM Perkacit DPTT is used as a secondary accelerator in the "Triple 8" system:

Perkacit DPTT 0.8, Perkacit TDEC 0.8, Perkacit TMTM 0.8, Perkacit MBT 1.5 and sulfur 2.0 phr.

In other secondary accelerator systems it can be used in the 0.5 to 1.5 phr range.

As a sulfur donor it contains the highest amount of available sulfur (28%). It is therefore preferred in semi-EV and EV systems.

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Accelerators

## 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 Perkacit DPTT in single stacked pallets in a cool, dry, well ventilated area, avoiding exposure of the packaged product to direct sunlight. Double stacking of palletized material and/or exceeding 35°C can result in unusual compaction of product.

## PRODUCT INFORMATION

Perkacit DPTT Product form	pdr powder	pdr-d dust suppressed powder	
<b>PRODUCT SPECIFICATIONS</b>			<u>Test method</u>
Appearance	white to light cream powder	white to light cream powder	FF97.5
Melting point, initial (°C) min.	115	115	FF83.9
Melting point, final (°C) max.	135	135	FF83.9
Heat loss (%) max.	0.3	0.3	FGr97.7
Ash (%) max.	0.5	0.5	FGr90.9
Additive (%)	-	1.0-2.0	FGr83.6
Residue on 150 µm sieve (%) max.	0.1	0.1	FF83.8
Residue on 63 µm sieve (%) max.	0.5	0.3	FF83.8
<b>TYPICAL PROPERTIES</b>			
Density at 20°C (kg/m <sup>3</sup> )	1500	1500	
Bulk density (kg/m <sup>3</sup> )	220-260	270-310	
Compacted bulk density (kg/m <sup>3</sup> )	330-370	380-420	

Perkacit DPTT is also available as 75% masterbatch.

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DPTT3.AC/1000

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