

Perkacit[®] NDBC

COMPOSITION: Nickel dibutyldithiocarbamate CAS#13927-77-0

Perkacit[®] NDBC is used as a secondary accelerator in most of the sulfur cured elastomers. It offers an effective antiozonant function in dynamic applications as well as a good antioxidant function in general.

MAJOR APPLICATIONS AND PROPERTIES

- Perkacit[®] NDBC is an effective antiozonant in SBR, BR, CR, NBR and IIR compounds for products used in dynamic applications where a wax film might break down and therefore not be efficient. It offers antioxidant protection in CR, CSM, CO, ECO and EPDM. Furthermore, Perkacit[®] NDBC is used for EPDM and CSM vulcanizates requiring high heat resistance and in colored CR articles where it improves the resistance against sunlight exposure.
- Perkacit[®] NDBC is non-staining and non-discoloring.
- It should be noted that in the application of Perkacit[®] NDBC N-nitrosodibutylamine can be formed by the reaction of dibutylamine, a decomposition product, with nitrosating agents (nitrogen oxides).
- Perkacit[®] NDBC is regulated for use in articles in contact with food as specified under BfR Recommendation XXI, Category 4. Perkacit[®] NDBC is not regulated for use in FDA food contact applications.

COMPOUNDING INFORMATION

As protective agent Perkacit[®] NDBC is used at levels of at least 2 phr.
As an accelerator Perkacit[®] NDBC is used at levels of 0.5 phr in combination with other dithiocarbamates, thiazoles and/or sulfenamides.

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 Performance Additives office and should be consulted before handling this product.

STORAGE RECOMMENDATIONS

Store Perkacit[®] NDBC 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® NDBC	pdr-d	
Product form	dust suppressed/oiled powder	
<u>PRODUCT SPECIFICATIONS</u>		<u>Test method</u>
Appearance	olive green powder	FF97.5
Nickel content (%)	12.0-12.8	FCp97.3
Melting point, initial (°C) min.	78	FF83.9
Melting point, final (°C)	85-90	FF83.9
Heat loss (%) max.	0.5	FGr97.7
Additive (%)	1.0-2.0	FGr83.6
Residue on 150 µm sieve (%) max.	0.1	FF83.8
Residue on 63 µm sieve (%) max.	0.5	FF83.8
<u>TYPICAL PROPERTIES</u>		
Density at 20 °C (kg/m ³)	1300	
Bulk density (kg/m ³)	300-340	
Compacted bulk density (kg/m ³)	380-420	