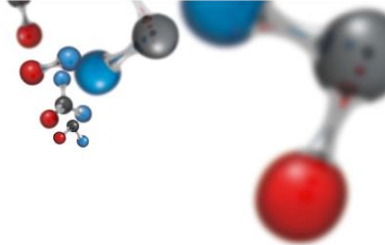


TECHNICAL DATA SHEET (TDS)

ONGRONAT® CF 5620



- **Product description:** ONGRONAT® CF 5620 is a mixture of 4,4'-methylene diphenyl diisocyanate and a polyether polyol-based prepolymer
- **Appearance:** Solvent free, colourless, transparent or slightly opaque liquid, free from any solid deposition
- **Industry:** Clothing and Footwear
- **Applications:** With suitable polyol blend ONGRONAT® CF 5620 can be used as isocyanate component for producing elastomers and shoe-soles

SPECIFICATIONS

Property	Value	Dimension	Test Method
NCO	7.5 - 9.5	wt%	ASTM D5155
Viscosity [at 25 °C]	3000 - 5000	mPa.s	ASTM D4889

OTHER PROPERTIES*

Property	Value	Dimension
Density [at 40°C]	1.21	g/cm ³
Flash point	>200	°C

*Values given in the other property range are only ones, therefore they are not to be considered as part of the specification.

PACKING, STORAGE & TRANSPORT

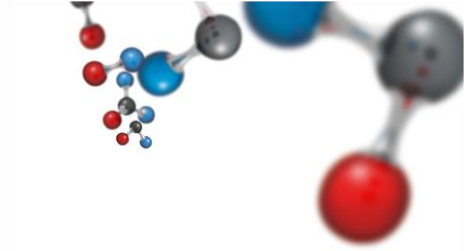
Transport and packing: ONGRONAT® CF 5620 can be loaded and transported in road tankers, 225 kg non-returnable metal drums, or in metal cans under nitrogen blanket. The loading temperature of ONGRONAT® CF 5620 is 40-50 °C in the case of bulk and 20-30 °C for drummed product. Please note that based on the distance of the destination the delivery temperature may differ from the loading temperature, but still remains in the range of 20-40 °C for bulk product. When transporting ONGRONAT® CF 5620 in drums the temperature must be kept in the range of 15-30 °C, therefore cold shocks and prolonged exposure of the drums to intensive sunlight must be avoided. ONGRONAT® CF 5620 is shipped according to the above mentioned delivery temperature ranges in the lack of any special requirement.

Storage: Normal processing temperature of ONGRONAT® CF 5620 is between 20-25 °C. It is recommended to store the product within this temperature range. Under these conditions the quality will be preserved for max. six (6) months from the date of its production. The material can also be stored within the temperature range of 15-30 °C without affecting its quality significantly. During storage below 15 °C the quality of ONGRONAT® CF 5620 can deteriorate, because of the partial crystallisation of its 4,4'-methylene diphenyl diisocyanate content. The product can be liquefied again by heating it up to

70°C as rapidly as possible in a controlled way. During this re-melting procedure sediment can be generated. If the product is not consumed immediately after re-melting, it is necessary to ensure storing at the recommended storage temperature. Storage at a temperature above 30 °C is not recommended since discolouration and formation of insoluble solids (dimerisation) may occur which can lead to a viscosity increase and a decrease of NCO content. Above 150 °C a slow, exothermic decomposition reaction takes place which becomes extremely fast above 250 °C, so care must be taken to avoid this thermic effect. The material must be kept dry at all times; therefore it must be protected from water ingress and atmospheric moisture. In order to protect the material from atmospheric moisture a dry inert gas blanket (nitrogen) with a dew point of -40 °C must be applied for any type of containers (drums or storage tanks). Dry air is not recommended for this purpose because it could cause oxidation and due to this, the colour of the product may become darker.

TECHNICAL DATA SHEET (TDS)

ONGRONAT® CF 5620



SAFETY PRECAUTIONS

Handle the material with care. Avoid contact with water and moisture. Reaction with water always results in the formation of CO₂ and therefore increase of pressure in the closed storage container. Avoid contact with skin and eyes. Do not

inhale the vapours of the product. Detailed safety information available on the www.borsodchem-group.com website and in the specific Safety Data Sheet.

Version: English
Date: 08.12.2014
Technical Data Sheet (TDS)
ONGRONAT® CF 5620

www.borsodchem-group.com

This information is based on our most recent knowledge. However, the application and processing of the material after sale is beyond our control and we cannot assume responsibility for use of this material outside BorsodChem premises. The user is obliged to check the suitability of this material for the intended use and accepts sole responsibility for compliance with any legal requirements relating to its use. This document does not constitute a warranty or guarantee.

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