



## INSULATING OIL

# ADDINOL TRANSFORMER OIL TRF-GNX

### PRODUCT DESCRIPTION

ADDINOL Transformer Oil TRF-GNX is a mineral oil raffinate based on naphthenic crude oils with an additional anti-ageing additive.

### APPLICATION

- Excellent suitability as insulating and cooling fluid in transformers, chokes, converters, switches and similar high voltage devices

### PLEASE NOTE

For specific requirements, the transformer oil is to be prepared accordingly prior to filling (please see special application-technical information and instructions of the manufacturers of electrical aggregates and equipment).

### SPECIFICATIONS/APPROVALS

Meets and surpasses the requirements of:

- IEC 60296 (2012)
- DIN EN 60296 (2012)
- VDE 0370-1 (2012)

### DELIVERY

Delivery preferable in drums. Also available as dried drum product.

### CHARACTERISTICS

- Extremely low pour point
- Very good ageing resistance
- Excellent corrosion protection
- Low dielectric loss factor

### ADVANTAGES AND BENEFITS

- Very good low temperature behaviour
- Stands high thermal loads
- Long lifetime of the oil filling
- No danger of copper corrosion
- High resistance





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## SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		TRF-GNX	Method acc. to
Appearance			clear, free of contaminations	visual
Density	at 20°C	kg / m <sup>3</sup>	880	DIN 51757
Viscosity	at -30°C	mm <sup>2</sup> /s	725	DIN 51562-1
	at 40°C	mm <sup>2</sup> /s	7.6	
Flash point	PM	°C	> 140	DIN EN ISO 2719
Pour point		°C	-60	DIN ISO 3016
Neutralisation number		mg KOH / g	0.01	DIN 51558-2
Dielectric loss factor	at 90°C	tan $\delta$	< 0.001	IEC 60247
Disruptive voltage in manufacturing state		kV	> 70	IEC 60156
Oxidation stability	at 120°C, 500h	mg KOH/kg	0.04	IEC 61125 C
			< 0.02	
	at 90°C	tan $\delta$	0.03	
Inhibitor content, phenolic		%	0.3 to max. 0.4	-
Corrosive sulphur			not corrosive	DIN 51353 ASTM D 1275 B IEC 62535

### ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.