



**Technical Data Sheet**

# MIZAR SYNT 32

PAO food grade synthetic fluid

**Description**

MIZAR SYNT is a high performance PAO synthetic oil specifically formulated for food grade, pharmaceutical and cosmetic industry. In case of accidental contact with foodstuff, medicine or beverage any kind of physiological inconvenience is excluded. This product is formulated in accordance with FDA 21 CFR 178.3570 and NSF H1 and corresponds to HALAL specifications.

**Use / application**

MIZAR SYNT thanks to its special formulation is suitable for use under particularly heavy working conditions, operating on high or low working temperatures and in applications operating under conditions of extreme stress. Exceptional oxidation resistance and outstanding thermal stability grant prolonged lubricant life and significantly reduce oil consumption. Excellent mechanical stability and anti-wear properties assure perfect functionality of lubricated applications. This lubricant is compatible with mineral oils, minimizes carbon residuals and is compatible with the most common gasket materials. Ideal for hydraulic systems, slideways, vacuum pumps, tools etc.

**Properties**

- Extremely resistant to oxidation;
- outstanding adhesiveness;
- universal lubricant suitable for hydraulic systems;
- significantly reduces lubricant consumption;
- important prolongation of lubricating interval;
- outstanding protection of machinery and applications against corrosion;
- suitable for freezing plants in food sector.

**Specifications**

DIN 51524-3 (HVLP)

**Technical Data**

ISO Viscosity class			32
Density at 20°C	ASTM D4052	g/cm <sup>3</sup>	0.83
Viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	32
Viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	6.1
Viscosity index	ISO 2909		142
Flash point (COC)	ASTM D92	°C	238
Pour Point	ISO 3016	°C	-57
Corrosion protection (steel)	DIN 51355		0-A
Copper corrosion	ASTM D130		1
Demulsibility	ASTM D1401	ml	40/40/0 15 min.
Foaming Tendency I-III (24°C/93,5°C/24°C)	ASTM D892	ml	0/0/0
FZG Test (A/8.3/90)	ASTM D5182	stage	11



February 13, 2019

Dr. Ivo Cordioli  
Nils Spa/AG  
Bahnhofstrasse 30  
39014 Burgstall  
Italy

**RE:** Mizar Synt 32  
Category Code: H1  
NSF Registration No. 158863

Dear Dr. Ivo Cordioli:

NSF has processed the application for Registration of **Mizar Synt 32** to the *NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds (2017)*, which are available upon request by contacting [NonFood@nsf.org](mailto:NonFood@nsf.org). The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling review.

**This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.**

NSF Registration of this product is current when the NSF Registration Mark and Category Code appear on the NSF-approved product label, and the Registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website ([www.nsfwhitebook.org](http://www.nsfwhitebook.org)).

NSF Listing of all Registered Nonfood compounds by NSF International is not an endorsement of those compounds, or of any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF website, at [www.nsfwhitebook.org](http://www.nsfwhitebook.org). Changes in formulation or label, without the prior written consent of NSF, will void Registration, and will supersede the on-line listing. Please contact your NSF Project Manager or [nonfood@nsf.org](mailto:nonfood@nsf.org) if you have any questions or concerns pertaining to this letter.

Sincerely,

Carolyn Gilliland  
NSF NonFood Compound Registration Program  
Company No: N11242