SIGILL®
DAI FORMA ALLE IDEE

Technical data sheet Block Frena Filetti Medio
Ver. 5.2 May 2023

BLOCK FRENA FILETTI MEDIO

Medium-strength anaerobic methacrylate-based threadlocking sealant

DESCRIPTION

Block Frena Filetti Medio is a medium-strength anaerobic methacrylate-based threadlocking sealant for locking and sealing threaded fasteners such as screws, bolts, nuts, pins and threaded parts that require disassembly with normal tools and little effort. It has good chemical resistance to water/glycol mixtures, brake fluid, engine oil and acetone.

Certified and tested according to:
DIN-54454: 90% torque retention after 1000 hours

FEATURES

- Medium mechanical torsion resistance
- Medium viscosity, does not flow
- High temperature resistance between -50°C and + 150°C
- Good chemical resistance

TECHNICAL DATA

Appearance	Liquid
Colour	Blue
Specific Gravity (g/cm3)	1.05 - 1.06
Viscosity (mPa*s) (Brookfield 20 rpm/25°C)	500 - 600
Flash Point [°C]	>100
Operating Temperatures [°C]	-50 ÷ + 150
Handling Time [min]*	Ca. 15
Functional Hardening [h]*	3 - 6
Final Hardening [h]*	12 - 24

NPT Srl
Headquarter
Via Guido Rossa n.2 - Loc. Crespellano
40053 Valsamoggia (BO) - Italy
T. +39 051969168
www.sigill.it

NPT Srl
Production and R&D
Via Stazione, 12
Villanova d'Ardenghi (PV) - Italy
T +39 0382400140

Organizzazione con Sistema
di gestione qualità certificato
UNI EN ISO9001:2015 da CSI Spa

Initial Unscrewing Torque (N*m) (ISO 10964)	20 - 30
Residual Unscrewing Torque (N*m) (ISO 10964)	20 - 25
Maximum Diameter Clearance [mm]**	0.15

**Depending on thickness, type of surface and environmental conditions*
***Recommended on pipes with a maximum diameter of 2 inches as the maximum clearance is hardly respected with larger dimensions.*

CHEMICAL RESISTANCE
According to DIN 54454
Unscrewing torque % after immersion vs reaction time

	Temp. °C	100 h	500 h	1000 h
Water/glycol	85	100	100	100
Breake liquid	22	100	95	95
Motor oil	125	100	100	95
Acetone	22	100	95	95

APPLICATION

This product is not suitable for metal-plastic couplings as well as for sealing systems with basic products or strongly oxidising acids. Use on clean and degreased metal threads. Apply the product on the first few turns of the male thread and half a turn on the female. It is essential to tighten tight. A loose and superficial tightening can cause leaks over time. Do not open or swivel joints after tightening. Wait 24 hours to allow the sealant to fully cure before putting the system into operation. polymerisation of the sealant. In the case of assembly in series, it is recommended to block the previous joint in order to prevent the film from breaking during formation.

CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

Clean tools used with solvents. Avoid skin contact, possibly using latex, rubber or polyethylene gloves. In case of contact with skin, wash immediately with soap and water.

PACKAGING

Bottle 20 ml - 12 units per box
Bottle 60 ml - 6 units per box

NPT Srl
Headquarter
Via Guido Rossa n.2 - Loc. Crespellano
40053 Valsamoggia (BO) - Italy
T. +39 051969168
www.sigill.it

NPT Srl
Production and R&D
Via Stazione, 12
Villanova d'Ardenghi (PV) - Italy
T +39 0382400140

Organizzazione con Sistema
di gestione qualità certificato
UNI EN ISO9001:2015 da CSI Spa

STORAGE AND SHELF LIFE

It can be stored for 24 months from the date of production, in unopened containers and in a dry and cool environment. Storage temperature between 5°C and 30°C.

GENERAL INFORMATION

The information contained in this data sheet represents the best of our knowledge. However, this document cannot be regarded as a guarantee that the product will be used and applied in accordance with the instructions provided. Successful application is beyond our control and depends on many factors. We accept no responsibility for the misuse of the product, the recommendations in this document should be considered general guidelines. If any doubts remain, please carry out preliminary tests. NPT Srl, reserves the right to modify and update the data sheet without prior notice. Customers are kindly requested to check that they have the latest version.

ALWAYS CONSULT THE SAFETY DATA SHEET BEFORE USING THE PRODUCT

NPT Srl
Headquarter
Via Guido Rossa n.2 - Loc. Crespellano
40053 Valsamoggia (BO) - Italy
T. +39 051969168
www.sigill.it

NPT Srl
Production and R&D
Via Stazione, 12
Villanova d'Ardenghi (PV) - Italy
T +39 0382400140

Organizzazione con Sistema
di gestione qualità certificato
UNI EN ISO9001:2015 da CSI Spa