Manufacturer and Name



Base Oil

Date: 30. March 2017

Lubrication Grease for TBM Approval list for seal material 85 NBR B248

We have carried out seal material resistance tests with various grease types and our seal material 85 NBR B248. This material is used e.g. for special shaft seals type 2927 and 2821 in TBM-applications. The following grease types are suitable with seals made of 85 NBR B248 up to a work temperature of 60°C. Please note: These indications are only referring to the seal material resistance. The grease performance (e.g. antiwear properties, corrosion protection, ageing behaviour etc.) can not be tested by us. Do not use grease with solid particles (e.g. Graphite, MoS2 etc.) for seal lubrication.

The mixture of different grease types can change the grease performance and the seal material resistance. The change of grease performance can not be estimated by us. The change of seal material resistance has to be tested with a particular mixture, when in doubt.

Manufacturer and Name	<u>Dase Oil</u>
Blaser Blasolube 472 und 492	Minoral Oil
	Mineral Oil
Blaser Blasolube 28282	Mineral Oil
Blaser Blasolube 422-01	Ester Oil
Blaser Blasolube 422-02	Ester Oil
ChevronTexaco Multifak EP2	Mineral Oil
Condat GR130-680 EP2	Mineral Oil
Condat HBW *	Synthetic Oil
Condat GR 217 S	Synthetic Oil
DEA Dolon E EP2	Synthetic Ester Oil
BASF MasterRoc EPB 1	Vegetable Oil
BASF MasterRoc EPB 10	Mineral Oil
BASF MasterRoc EPB 11	Mineral Oil
BASF MasterRoc BSG 1 *	Vegetable Oil
BASF MasterRoc BSG 11 *	Mineral Oil
Fuchs Plantogel 2 N	Rape Oil
Fuchs Plantogel ECO 2 N	Rape Oil
Fuchs Dea Plantogel 2 S	Synthetic Oil

^{*:} used only as excluder grease!

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FREUDENBERG SEALING TECHNOLOGIES



Manufacturer and Name

Fuchs Renolit FEP 2 Fuchs Renolit FAP 502

Globalchimica Globalseal TBM/T *

ITW Chemical Rocol Turmaline 2

Klüber Klüberbio M32-82 Klüber Klüberbio M72-82 Klüber Klüberlub RM 41-1503

Mapei Mapeblox/H
Mapei Mapeblox EP2
Mapei Mapeblox EP ECO
Mobil Mobilgrease XHP 222

Mobil Mobilux EP1

Normet TamGrease BS1 Excluder *
Normet TamGrease BL11 EP2
Normet TamGrease BL12 EP2

Olipes Maxigras 48 Quaker Quaseal 500 Repsol Grasa Tuneladora

Rhenus CXN 25 Rhenus LPU 25 Rhenus LQN 2

Seal Sanat RAGA MBG-70 *
Shell Naturelle S5 V120P 2
SMAZKA.RU MC 1330 *
SMAZKA.RU MC 1500
Statoil Uniway Bio Lix 62
Whitmore's Earthkeeper EP2

Mineral Oil Mineral Oil

N.A.

Mineral Oil

Synthetic Ester Oil
Synthetic Ester Oil

Mineral Oil

Synthetic Ester Oil

N.A.

Vegetable Oil Mineral Oil Mineral Oil

N.A.

Mineral Oil

Synthetic Ester Oil

Mineral Oil
Rape Oil
Mineral Oil
Natural Ester Oil
Mineral Oil
Mineral Oil
Synthetic Oil

N.A.

Mineral Oil Mineral Oil

Synthetic Ester Oil

N.A.

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Base Oil

^{*:} used only as excluder grease!