# **Products**

# **LEYBONOL** Mineral Oils

Application Data	LVO 100	LVO 120	LVO 130
Type of oil	Mineral oil, free of additives	Mineral oil with additives	Mineral oil with additives
Properties	Low vapor pressure,, low inclination to foaming, very good water separation	Extended oil change intervals, low inclination to foaming, very good water separation	Extended oil change intervals, low inclination to foaming, very good water separation
Application examples	Standard oil for low ultimate pressures. Pumping of air, chemically inert gases and water vapor	Standard oil for small SOGEVAC pumps <sup>2)</sup> Pumping of air, chemically inert gases and water vapor	Standard oil for large SOGEVAC pumps <sup>2)</sup> Pumping of air, chemically inert gases and water vapor
Elastomer compatibility FKM (FPM, Viton) NBR (Perbunan) <sup>1)</sup> EPDM	Suited Conditionally suited Unsuitable	Suited Conditionally suited Unsuitable	Suited Conditionally suited Unsuitable
Used in the pumps of series	TRIVAC, E + DK, RUVAC	SOGEVAC A-series (≤ SV 65) and B-series (≤ SV 25, ≤ SV 120 BI (FC))	SOGEVAC A-series ( ≥ SV 100) and B-series (≥ SV 40 B)

Technical Data		LVO 100	LVO 120	LVO 130
ISO viscosity grade		ISO VG 100	ISO VG 32	ISO VG 68
Viscosity at 40 °C (104 °F) at 100 °C (212 °F)	mm²/s mm²/s	95 10.5	32 5.5	68 9
Flash point	°C (°F)	> 255 (> 491)	244 (471)	248 (478)
Density at 15 °C (59 °F)	kg/m³	880	875	885
Pour point	°C (°F)	< -9 (< +16)	-27 (-17)	-21 (-6)

Ordering Information	LVO 100	LVO 120	LVO 130
	Part No.	Part No.	Part No.
0.5 liters	-	L 120 00	-
1 liters	L 100 01	L 120 01	L 130 01
2 liters	-	L 120 02	L 130 02
5 liters	L 100 05	L 120 05	L 130 05
20 liters	L 100 20	L 120 20	L 130 20
208 liters	L 100 99	-	L 130 99

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

<sup>1)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

<sup>1)</sup> LVO 120 is suited for the SOGEVAC SV 25 B and smaller pumps where the lower viscosity assists the starting process.
LVO 130 is suited for the SOGEVAC SV 40 B and larger pumps where the higher viscosity assists attaining of lower pressures.
However, all SOGEVAC pumps can be operated with both types of oil and moreover, LVO 120 and LVO 130 can be mixed with each other.

#### LVO 140

# LVO 150

### LVO 170

Type of oil	Mineral oil with additives	Mineral oil with additives	Mineral oil with detergent additives
Properties	Suitable for use in the food &	Suitable for use in the food &	High detergency,
	packaging industry	packaging industry	high thermal stability,
			low inclination of foaming
Application examples	Recommended for applications	Recommended for applications	Heat treatment, low pressure
	in the food industry	in the food industry	carburizing process and other
			processes creating tar or soot
Elastomer compatibility			
FKM (FPM, Viton)	Suited	Suited	Suited
NBR (Perbunan) <sup>1)</sup>	Conditionally suited	Conditionally suited	Conditionally suited
EPDM	Unsuitable	Unsuitable	Unsuitable
Used in the pumps of series	SOGEVAC A-series	SOGEVAC A-series	SOGEVAC A-series
	(≤SV 65) and B-series	(≥ SV 100) and B-series	(≥ SV 100) and B-series
	(≤SV 25 B)	(≥ SV 40 B)	(≥ SV 40 B)

Technical Data		LVO 140	LVO 150	LVO 170
ISO viscosity grade		ISO VG 32	ISO VG 68	ISO VG 100
Viscosity at 40 °C (104 °F) at 100 °C (212 °F)	mm²/s mm²/s	30 5	63 8	95.6 11
Flash point	°C (°F)	225 (437)	253 (487)	> 110 (230)
Density at 15 °C (59 °F)	kg/m³	860	870	0.889
Pour point	°C (°F)	-18 (-0.4)	-18 (-0.4)	-24 (-11.2)

Ordering Information	LVO 140	LVO 150	LVO 170
	Part No.	Part No.	Part No.
1 liter	L 140 01	L 150 01	-
20 liters	-	L 150 20	L 170 20

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

# **LEYBONOL** Ester Oils

# **Application Data**

# LVO 200

#### LVO 210

Type of oil	Synthetic oil (ester oil with additives)	Synthetic oil (ester oil with additives)
Properties	Very high thermal, oxidative	Very high thermal, oxidative
	and chemical stability,	and chemical stability,
	good deterging/dispersion characteristics,	good deterging/dispersion characteristics,
	excellent wear protection	excellent wear protection
Application examples	Application at increased temperatures	Application at increased temperatures
	Starting of the pump between 0 and +12 °C	Pumping of air, inert gases,
	(32 and 64 °F)	carbon dioxide (dry), carbon monoxide,
	Pumping of air, inert gases, carbon dioxide (dry), carbon monoxide,	organic solvent vapours, resin vapours
	organic solvent vapours,	
	resin vapours	
Remarks	Not for pumping of inorganic acids,	Not for pumping of inorganic acids,
	free halogens or alkaline media	free halogens or alkaline media
Elastomer compatibility		
FKM (FPM, Viton)	Suited	Suited
NBR (Perbunan) <sup>1)</sup>	Conditionally suited	Conditionally suited
EPDM	Unsuitable	Unsuitable
Used in the pumps of series	SOGEVAC	TRIVAC B, SP-Line,
	A-series (≤ SV 65 A) and	E + DK, RUVAC, DRYVAC
	BI-series (≤ SV 120 BI (FC))	SOGEVAC (≥ SV 100, ≥ SV 40 B)
		SV 40 Cat. 1 (i)/2 (o) IIB + H2 and
		SV 40 B to 630 B
		Cat. 2 (i)/2 (o) and 3 (i)/3 (o)

# **Technical Data**

# LVO 200

# LVO 210

ISO Viscosity grade		ISO VG 32	ISO VG 100
Viscosity			
at 40 °C	mm²/s	28	97
at 100 °C	mm²/s	5.5	9
Flash pointt	°C (°F)	258 (496)	250 (482)
Density at 15 °C	kg/m³	918	960
Pour point	°C (°F)	< -45 (< -49)	-33 (-27)

#### **Ordering Information**

# LVO 200

#### LVO 210

	Part No.	Part No.
1 liter	L 200 01	L 210 01
2 liters	L 200 02	L 210 02
5 liters	L 200 05	L 210 05
20 liters	L 200 20	L 210 20
208 liters	_	L 210 99

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

LVO 220

# LVO 240

Type of oil	Synthetic oil (ester oil with additives)	Synthetic oil (special ester oil)
Properties	Very high thermal, oxidative	Excellent solubility for polymers
	and chemical stability, good deterging	
	and dispersion characteristics,	
	excellent wear protection	
Application examples	Application in RUVAC WSLF	Pumping of process media
	for operation with gas lasers	which have a tendency to polymerise
		(styrene and butadiene)
Remarks		Do not use any chemical oil filters
		Strictly avoid any mixing with
		any other type of oil
		Not for pumping inorganic acids
Elastomer compatibility		
FKM (FPM, Viton)	Suited	Suited
NBR (Perbunan) <sup>1)</sup>	Conditionally suited	Unsuitable
EPDM	Unsuitable	Unsuitable
Used in the pumps of series	RUVAC (WSLF)	TRIVAC B

#### **Technical Data**

LVO 220

LVO 240

ISO Viscosity grade		ISO VG 100	Not classified
Viscosity			
at 40 °C	mm²/s	94	38
at 100 °C	mm²/s	13	5
Flash pointt	°C (°F)	265 (509)	225 (437)
Density at 15 °C	kg/m³	915	1055 2)
Pour point	°C (°F)	-35 (-31)	-32 (-26)

Ordering Information	LVO 220	LVO 240	
	Part No.	Part No.	
1 Liter	L 220 01	_	
20 liters	-	L 240 20	
208 liters	_	L 240 99	

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

<sup>1)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

2) At 20 °C (68 °F)

# LVO 250

#### LVO 260

Used in the pumps of series	TURBOSTREAM	TURBOSTREAM	
EPDM	Unsuitable	Unsuitable	
NBR (Perbunan) <sup>1)</sup>	Conditionally suited	Conditionally suited	
FKM (FPM, Viton)	Suited	Suited	
Elastomer compatibility			
Application examples	Bearing lubricant for turboradial blowers	Bearing lubricant for turboradial blowers	
Properties	High thermal and oxidative stability	Very high thermal and oxidative stability	
Type of oil	Synthetic oil (ester oil with additives)	Synthetic oil (special ester oil)	

### **Technical Data**

### LVO 250

LVO 260

ISO Viscosity grade	Not classified	Not classified
Viscosity		
at 40 °C mm²/s	13	24
at 100 °C mm²/s	3.5	5
Flash pointt °C (°F)	> 185 (> 365)	245 (473)
Density at 15 °C kg/m <sup>3</sup>	925	980 2)
Pour point °C (°F)	< -57 (< -71	-60 (-76)

#### **Ordering Information**

LVO 250

# LVO 260

	Part No.	Part No.
0.3 liters	L 250 00	L 260 00
300 ml Set (for TURBOSTREAM D 2500)	896 101	-
600 ml Set (for TURBOSTREAM D 2500 / S 3500)	-	896 112

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

 $^{\scriptscriptstyle 1)}$   $\;$  Resistance is dependent on the level of the acrylonitrile content in the NBR  $\;$ 

2) At 20 °C (68 °F)

# LEYBONOL PAO Oils

Application Data	LVO 300	LVO 310	LVO 320	
Type of oil	Synthetic oil (PAO with additives)	Synthetic oil (PAO with additives)	Synthetic oil (PAO with additives)	
Properties	High thermal and oxidative stability H1 registration by NSF. Constituents approved by the FDA under CFR 178-3570.	High thermal and oxidative stability	High thermal and oxidative stability	
Application examples	In acc. with USDA - H1 Recommended for applications in the food industry Backing pumps for mass spectrometers Cleaning systems	Cold starting at low temperatures is possible Pumping of air, chemically inert gases, water vapor and small quantities of refrigerant R 717 (ammonia)	Pumping of air, chemically inert gases and water vapor	
Elastomer compatibility FKM (FPM, Viton) NBR (Perbunan) <sup>1)</sup> EPDM	Suited Conditionally suited Unsuitable	Suited Conditionally suited Unsuitable	Suited- Conditionally suited Unsuitable-	
Used in the pumps of series	TRIVAC, only D 25 B SOGEVAC A-series (≥ SV 100) und B-series (≥ SV 40 B)	TRIVAC, up to D 16 B	VACUBE	

Technical Data		LVO 300	LVO 310	LVO 320
ISO viscosity grade		ISO VG 100	ISO VG 32	ISO VG 46
Viscosity at 40 °C (104 °F) at 100 °C (212 °F)	mm²/s mm²/s	99 13.5	29 5.5	45.4 7.2
Flash point	°C (°F)	270 (518)	230 (446)	252 (485.6)
Density at 15 °C (59 °F)	kg/m³	840	820	828
Pour point	°C (°F)	-54 (-65)	< -54 (< -65)	-51 (-59.8)

Ordering Information	LVO 300	LVO 310	LVO 320
	Part No.	Part No.	Part No.
0.5 liters	L 300 00	-	-
1 liter	L 300 01	L 310 01	-
20 liters	L 300 20	-	L 320 20

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

# LEYBONOL PFPE Oils

### **Application Data**

# LVO 400

# LVO 410

Type of oil	Synthetic oil (perfluoropolyether PFPE,	Synthetic oil (perfluoropolyether PFPE,
	free of additives)	free of additives)
Properties	Chemically inert	Chemically inert
	Highest thermal stability	Highest thermal stability
Application examples	Pumping of strong oxidants like oxygen,	Pumping of strong oxidants like oxygen,
	ozone or nitrous oxides, as well as reactive	ozone or nitrous oxides, as well as reactive
	substances like halogens, hydrogen halides	substances like halogens, hydrogen halides
	and conditionally Lewis acids	and conditionally Lewis acids
Remarks	Use only in pumps modified for PFPE	Use only in pumps modified for PFPE
	Mixing with any type of other oil must be strictly avoided	Mixing with any type of other oil must be strictly avoided
	Avoid pumping of water vapor, in particular in connection with corrosive media (see above)	Avoid pumping of water vapor, in particular in connection with corrosive media (see above)
	The use of a chemical oil filter CF/CFS is strongly recommended	The use of a chemical oil filter CF/CFS is strongly recommended
	When used in RUVAC:	When used in RUVAC:
	For use with PFPE we exclusively recom-	For use with PFPE we exclusively recom-
	mend pump types with a canned motor	mend pump types with a canned motor
Elastomer compatibility		
FKM (FPM, Viton)	Suited	Suited
NBR (Perbunan) <sup>1)</sup>	Suited	Suited
EPDM	Suited	Suited
Used in the pumps of series	TRIVAC BCS, SOGEVAC, E + DK,	RUVAC, E + DK, DRYVAC
	RUVAC	ECODRY Plus, LEYVAC

# **Technical Data**

LVO 400

# LVO 410

ISO Viscosity grade		Not classified	Not classified
Viscosity			
at 40 °C	mm²/s	49	89
at 100 °C	mm²/s	7	11
Flash pointt	°C (°F)	_ 2)	_ 2)
Density at 15 °C	kg/m³	1890	1900
Pour point	°C (°F)	-45 (-49)	-35 (-31)

Ordering Information	LVO 400	LVO 410	
	Part No.	Part No.	
0.60 liters	-	L 410 00	
0.75 liters	L 400 00	-	
1 liter	L 400 01	L 410 01	

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

<sup>1)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

<sup>2)</sup> Caution: in the case of thermal decomposition > 290 °C (> 554 °F) toxic and corrosive gases are released. When handling PFPE keep away from open fires. Do not smoke in the work area

# LVO 420

**LVO 400** 

**LVO 400** 

Type of oil	Synthetic oil (perfluoropolyether PFPE, free of additives)
Properties	Chemically inert
	Highest thermal stability
Application examples	Pumping of strong oxidants like oxygen, ozone or nitrous oxides, as well as reactive substances
	like halogens, hydrogen halides and conditionally Lewis acids
Remarks	Use only in pumps modified for PFPE
	Mixing with any type of other oil must be strictly avoided
	Avoid pumping of water vapor,
	in particular in connection with corrosive media (see above)
	The use of a chemical oil filter CF/CFS is strongly recommended
Elastomer compatibility	
FKM (FPM, Viton)	Suited
NBR (Perbunan) <sup>1)</sup>	Suited
EPDM	Suited
Used in the pumps of series	SOGEVAC BI-series with 1 ph motors ≤ SV 40 BI

# **Technical Data**

#### ISO Viscosity grade Not classified Viscosity at 40 °C mm²/s 25 at 100 °C mm²/s 4.5 Flash point °C (°F) \_ 2) Density at 15 °C kg/m<sup>3</sup> 1880 Pour point °C (°F) -50 (-58)

### **Ordering Information**

	Part No.
1 liter	L 420 01
2 liters	L 420 02

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

<sup>1)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

<sup>2)</sup> Caution: in the case of thermal decomposition > 290 °C (> 554 °F) toxic and corrosive gases are released. When handling PFPE keep away from open fires. Do not smoke in the work area

# Oils / Greases / Lubricants

# **LEYBONOL** Diffusion Pump Oils

Application Data	LVO 500	LVO 510	LVO 520	LVO 540
	(DIFFELEN normal)			
Type of oil	White oil,	Mineral oil,	Silicone oil (tetramethyl-	Pump fluid based on
	free of additives	free of additives	tetraphenyltrisiloxane)	hydrocarbons
Properties	Good thermal stability	High thermal stability	Very high thermal	High thermal stability
			stability and highly	and excellent
			resistant against	resistance against
			oxidation and	oxidation and
			decomposition	decomposition
Application examples	LVO 500 is the most	For applications in a	For high vacuum and	For oil vapor jet pumps
	frequently used pump	high vacuum	ultra-high vacuum	
	fluid for applications in		applications	
	a high vacuum.			
	The attainable ultimate			
	total pressure is below			
	10 <sup>-7</sup> mbar			
Elastomer compatibility				
FKM (FPM, Viton)	Suited	Suited	Suited	Suited
NBR (Perbunan) <sup>1)</sup>	Conditionally suited	Conditionally suited	Suited	Suited
EPDM	Unsuitable	Unsuitable	Suited	Unsuitable
Used in the pumps of series	DIP, LEYBOJET 630	DIP, LEYBOJET 630	DIP, LEYBOJET 630	OB

Technical Data	LVO 500	LVO 510	LVO 520	LVO 540
	(DIFFELEN normal)			
Vapor pressure at 20 °C (68 °F) mba	ar 4 x 10 <sup>-9</sup>	1 x 10 <sup>-7</sup>	7 x 10 <sup>-9 2)</sup>	6 x 10 <sup>-6</sup>
Viscosity at 40 °C (104 °F) mm <sup>2</sup>	<b>'s</b> 100	60	21	22
Flash point °	C > 250 (> 482)	> 230 (> 446)	221 (430)	196 (385)
Density at 20 °C (68 °F) kg/n	n <sup>3</sup> 868	850	1070 <sup>2)</sup>	885

Ordering Information	LVO 500	LVO 510	LVO 520	LVO 540		
Ordering information	(DIFFELEN normal)					
	Part No.	Part No.	Part No.	Part No.		
1 liter	L 500 01	L 510 01	L 520 01	-		
5 liters	L 500 05	L 510 05	L 520 05	-		
20 liters	L 500 20	-	-	L 540 20		
200 liters	-	-	-	L 540 99		

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics.

<sup>1)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

<sup>2)</sup> At 25 °C (77 °F)

# **LEYBONOL Special Lubricants**

### **Application Data**

LVO 700

#### DOT 4

DOT 4

DOT 4

Type of oil	Synthetic cyclic hydrocarbon	Brake fluid
Properties	H1 registration by NSF.	High-quality brake fluid based on glycol ethers.
	Very high thermal stability and highly resistant	Corresponds to FMVSS DOT 4
	against oxidation and decomposition.	
	Very long lifetime.	
Application examples	Chemically inert to gases of acidic nature.	Only for filling of brake fluid circuits in the
	For long service intervals	automotive industry.
Remarks	-	Use only in pumps modified specifically for DOT
		4. Mixing with any other type of oil must be
		strictly avoided
Elastomer compatibility		
FKM (FPM, Viton)	Suited	Unsuitable
NBR (Perbunan) <sup>1)</sup>	Conditionally suited	Unsuitable
EPDM <sup>2)</sup>	Unsuitable	Conditionally suited
Used in the pumps of series	SOGEVAC BI-series ≤ SV 120 BI (FC)	TRIVAC, SOGEVAC

# Technical Data

ISO viscosity grade		32	Not classified <sup>)</sup>
Viscosity			
at 40 °C (104 °F)	mm²/s	31	Not applicable
at 100 °C (212 °F)	mm²/s	5	> 1.5
Flash point	°C (°F)	> 210 (> 410)	> 120 (248)
Density at 15 °C	kg/m³	904	1070
Pour point	°C (°F)	< -42 (< -44)	< -50 (< -58)

LVO 700

#### **Ordering Information**

# LVO 700

	Part No.	Part No.
1 liter	L 700 01	200 10 037

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

<sup>1)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

<sup>2)</sup> Not all EPDM materials are suited for contact with DOT 4

# LEYBONOL Greases

Application Data		LVO 810	LVO 870
		(LITHELEN)	(GLEITLEN)
Base oil type		Mineral oil	Special vaseline types
Thickener		Lithium soap	Natural rubber
Properties		Wide application range (0 to $+150 \text{ °C}$ / 32 to 302 °F), atmospheric pressure to $10^{-8}$ mbar	Usable down to 10 <sup>-2</sup> mbar
Application examples		Lubrication of ground joints, taps and O-rings at low pressures and high operating temperatures	Lubrication of stirrer shafts (KPG-stirrer)
Remarks		Owing high vacuum processing, LVO 810 does not contain any shares exhibiting high- er vapor pressures <sup>1)</sup>	_
Elastomer compatibility			
FKM (FPM, Viton)		Suited	Suited
NBR (Perbunan) <sup>2)</sup>		Conditionally suited	Conditionally suited
EPDM		Unsuitable	Unsuitable
Technical Data		LVO 810	LVO 870
		(LITHELEN)	(GLEITLEN)
Vapor pressure at 20 °C (68 °F)	mbar	10-10	10-4
Dropping point	°C (°F)	> 210 (> 441)	> 50 (> 122)
Max. operating temperature	°C (°F)	150 (302)	30 (86)
Ordering Information		LVO 810 (LITHELEN)	<b>LVO 870</b> (GLEITLEN)
		Part No.	Part No.
Tube 50 a		L 810 05	-

-

L 810 99

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

<sup>1)</sup> The product contains silicon dioxide

Tin 50 g

Bucket 2 kg

<sup>2)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

L 870 05

L 870 99

# LVO 871

## LVO 872

Base oil type	Special vaseline types	Special vaseline types
Thickener	Natural rubber	Natural rubber
Properties	Usable down to 10 <sup>-2</sup> mbar	Usable down to 10 <sup>-2</sup> mbar
Application examples	Lubrication of ground joints	Lubrication of taps
Elastomer compatibility		
FKM (FPM, Viton)	Suited	Suited
NBR (Perbunan) <sup>1)</sup>	Conditionally suited	Conditionally suited
EPDM	Unsuitable	Unsuitable

### **Technical Data**

LVO 871

LVO 872

Vapor pressure at 20 °C (68 °F)	mbar	10-4	10-4
Dropping point	°C (°F)	> 56 (> 133)	> 56 (> 133)
Max. operating temperature	°C (°F)	30 (86)	30 (86)

#### **Ordering Information**

# LVO 871

LVO 872

	Part No.	Part No.
Tin 50 g	L 871 05	L 872 05

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

### **High Vacuum Grease**

Base oil type	Silicone oil	
Thickener	Inorganic	
Properties	Low vapor pressure, high water and chemicals resistance	
Application examples	Lubrication of ground joints, taps and O-rings at low pressures and high operating temperatures	
Remarks	Wide operating range (-40 to +200 °C / -40 to +392 °F) atmospheric pressure down to 10 <sup>-6</sup> mbar <sup>2)</sup>	
Elastomer compatibility		
FKM (FPM, Viton)	Suited	
NBR (Perbunan) <sup>1)</sup>	Suited	
EPDM	Suited	

# **Technical Data**

# **High Vacuum Grease**

Vapor pressure at 20 °C (68 °F)	mbar	10 <sup>-7</sup>
Dropping point	°C (°F)	None <sup>3)</sup>
Max. operating temperature	°C (°F)	200 (392)

Ordering Information	High Vacuum Grease	
	Part No.	
Tube 50 g	E 210 502	

Please note that the technical data stated are typical characteristics only. Slight variations from batch to batch must be expected. The technical data stated here do not entail any warranted characteristics

<sup>1)</sup> Resistance is dependent on the level of the acrylonitrile content in the NBR

<sup>2)</sup> This product is unsuitable if also hot-cathode ionization vacuum gauges e.g. IONIVAC ITR 90/200 are installed in the process

 $^{\scriptscriptstyle 3)}$   $\,$  Above 200 °C (392 °F) polymerisation of the silicone greases discharges gas