

Car
Division



Truck
Division



GB



Fluids

Antifreeze
Brake fluids
Oils
Greases
Thread lock

www.febi.com



Quality and service

febi bilstein is one of the world's leading manufacturers and suppliers of passenger car and commercial vehicle spare parts in the independent aftermarket.

With our products, we produce first-class added value for our customers.

Our customers come first

febi bilstein's quality and service primarily serve the interests of our partners. We continually enhance our product range to stay in line with the highest standards of the market. Our high quality standard applies to each one of our 20,000 different products.

The licence for top-class products

By continuously modernising machinery and testing equipment, we provide for the ever increasing demands on our quality assurance, as this is the only way to meet the high expectations placed on our performance.

*febi bilstein's head office and
production in Ennepetal*



febi bilstein added value

- Original equipment quality
- Triple Check System
- Solutions made in Germany
- Premium brand
- Innovative partnerships



febi bilstein applies a simple standard to its products: Original equipment quality.

As a result, we have a leading position in the global independent aftermarket.



Oils - Antifreeze - Greases

febi oils are not universal products but are matched to the vehicle manufacturers' specific requirements. We will supply you with top quality as a value-for-money alternative to original parts.

febi antifreeze offers reliable protection against frost, corrosion and cavitation damage. In many cases, febi antifreeze even exceeds the vehicle manufacturers' requirements.

febi greases are perfectly suited for virtually all types of cars and commercial vehicles and cover all the areas of application on the vehicle. They meet the manufacturers' highest requirements and are suitable, among other things, for use in constant velocity joints or central lubrication systems.

The **design of the packaging** is very user-friendly.

- Clear identification of the products
- Colour coding according to products
- Recessed grip handle to make filling easier
- Vision strip for filling level
- Leakproof
- Recyclable PE plastic bottles





DOT 4
Bremsflüssigkeit · Brake Fluid
Liquide de frein · Líquido freni
Líquido de frenos

Nr. 21754 5 l e 5,2 US-quarts

Hydrauliköl ZH-M

Hydraulic fluid ZH-M
Huile hydraulique ZH-M
Aceite para hidráulica ZH-M
Óleo hidráulico ZH-M
Olej hydrauliczny ZH-M
Масло для гидросистемы ZH-M
آب هیدرولیک برای سیستم هیدرولیک

Nr. 02055 1 l e 1,06 US-quarts



5W-30

High Performance Engine Oil







1 l e 1,06 US-quarts

Korrosions- / Frostschutzmittel

Anticorrosivo / Antirugga agent
Produkt anticorrosivo / Antirugga
Agente anticorrosivo e antigelo
Cera anticorrosiva e antigelo
Cera anticorrosiva / Antirugga
Cera anticorrosiva e antigelo
Специальная водная антикоррозионная смазка
Anti-korrozivno / Rashladno sredstvo





Nr. 01381 1,5 l e 1,58 US-quarts

Applications

Page	Description	Colour	febi no.
22	SAE 5W-30		32945 (1 litre)
 Car Division	Longlife Plus		32946 (4 litres)
			32947 (5 litres)
			32948 (60 litres)
			39337 (200 litres)
23	SAE 5W-30		32941 (1 litre)
 Car Division	Longlife		32942 (4 litres)
			32943 (5 litres)
			32944 (60 litres)
			39336 (200 litres)
24	SAE 5W-40		32936 (1 litre)
 Car Division			32937 (4 litres)
			32938 (5 litres)
			32939 (60 litres)
			32940 (200 litres)
25	SAE 10W-40		32931 (1 litre)
 Car Division			32932 (4 litres)
			32933 (5 litres)
			32934 (60 litres)
			32935 (200 litres)
26	SAE 15W-40		32925 (1 litre)
 Car Division			32926 (4 litres)
 Truck Division			32927 (5 litres)
			32928 (25 litres)
			32929 (60 litres)
			32930 (200 litres)
			80366 (1000 litres)

Replacement no.	Manufacturer	Recommended applications
		ACEA A3/B4-04/C3
		BMW Longlife-04
		MB 229.51
		VW 504 00/507 00
		API SN/CF
		ACEA A3/B4-04/C3
		BMW Longlife-04
		GM Dexos 2
		MB 229.51
		VW 502 00/505 00/505 01
		API - SM/SL/CF
		ACEA A3/B3/B4-08
		BMW Longlife-98
		MB 229.3
		Opel LL-B 025
		Porsche
		VW 502.00 + 505.00
		API SL/CF
		ACEA A3/B3/B4-08
		MB 229.1
		VW 501 01/505 00
		ACEA E7
		ACEA A3/B3/B4
		API CI-4/SL
		VW 501 01/505 00
		MB 229.1
		CAT ECF-1-a/ECF-2
		Cummins 200 76/77/78
		Deutz DQC-III
		Mack EO-M PLUS
		MAN 3275
		MB 228.3
		MTU Type 2
		Renault RLD-2
		Volvo VDS-3

Applications

Page	Description	Colour	febi no.
27	SAE 20W-50		32921 (1 litre)
Car Division 			32922 (5 litres)
Truck Division 			38404 (20 litres)
			32923 (25 litres)
			32924 (60 litres)
			38408 (200 litres)
28	SAE 10W-40		34050 (25 litres)
Truck Division 	Truck Special		34051 (60 litres)
	Longlife Plus		34052 (200 litres)
29	SAE 10W-40		34047 (25 litres)
Truck Division 	Truck Special		34048 (60 litres)
	Longlife		34049 (200 litres)

Replacement no.	Manufacturer	Recommended applications
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		ACEA E7
		ACEA A3/B3/B4
		API CI-4/SL
		Allison C
		CAT ECF-1-a/ECF-2
		Cummins 20071/-72/-76
		/-77/-78
		Deutz DQC III-05
		Mack EO-M PLUS
		MAN 3275
		MB 228.3/229.1
		MTU Type 2
		Renault RLD-2
		Volvo VDS-3

		ACEA E9/E7/E6
		API CI-4
		CATERPILLAR ECF-1a
		DEUTZ DQC III-05
		MACK EO-M PLUS
		MAN M 3477/3271-1
		MB 228.51
		MTU DDC Type 3.1
		Renault RXD RGD
		Volvo VDS-3
		VOITH-RETARDER

		ACEA E7/E4
		API CI-4
		CUMMINS CES 20077/8
		DEUTZ DQC III-10
		MACK EO- M PLUS
		MAN M 3277
		MB 228.5
		MTU DDC Type-3
		Renault RXD/RLD-2
		Volvo VDS-3
		DAF
		Iveco 18-1804
		Scania LDF-2

Applications

Page	Description	Colour	febi no.	
30	Antifreeze	blue	01089 (1,5 litres)	
	G 11		22268 (5 litres)	
			22270 (20 litres)	
			05011 (60 litres)	
			31276 (210 litres)	
31	Antifreeze	yellow-green	02374 (1,5 litres)	
	G 11		88541 (5 litres)	
			75011 (60 litres)	
			89428 (210 litres)	
32	Antifreeze	red	80325 (1 litre)	
	G 12		01381 (1,5 litres)	
			22272 (5 litres)	
			22274 (20 litres)	
			12710 (60 litres)	
			33830 (210 litres)	
33	Antifreeze	purple	19400 (1,5 litres)	
	G 12+		19402 (5 litres)	
			22276 (20 litres)	
			22278 (60 litres)	
			33831 (210 litres)	
NEW	34	Antifreeze (G12++)	purple	37400 (1,5 litres)
				37401 (5 litres)
				37402 (60 litres)
NEW	35	Antifreeze (G 13)	purple	38200 (1,5 litres)
				38201 (5 litres)
				38202 (60 litres)
36	Antifreeze Ready Mix -30° C	green	26580 (1,5 litres)	
			26581 (5 litres)	
			26582 (25 litres)	
37	Antifreeze Ready Mix -30° C	blue	24196 (1,5 litres)	

Replacement no.	Manufacturer	Recommended applications
81 22 9 407 454	BMW	
1940 656	Opel	
G 011V8BA1	VW	
1 047 035	Ford	
000 989 08 25	Mercedes-Benz	MB 325.2
81 22 9 407 454	BMW	
1940 656	Opel	
G 011V8BA1	VW	G 11
1 047 035	Ford	
000 989 08 25	Mercedes-Benz	MB 325.2
G 012 A8DA1	VW	G 12
1089240 S	Volvo LKW	
1940 663 S1	Opel	
G 012 A8FA1	VW	VW TL 774 F
000 989 16 25	Mercedes-Benz	MB 325.3
1 336 797	Ford	Ford WSS-M97B44-D
1 222 116	Ford	
G 012 A8G M1	VW	VW TL774-G
000 989 28 25	Mercedes-Benz	MB 325.5
	Scania	Scania TB 1451
	SAE J1034	
G 013 A8J M1	VW	VW TL 774-J
77 11 171 589	Renault	Renault Typ D
77 00 001 144	Renault	
000 989 08 25 S2	universal	

Applications

Page	Description	Colour	febi no.
38	Brake fluid		26746 (0,25 litres) 26461 (1 litre) 21754 (5 litres)
39	Brake fluid		26748 (0,25 litres) 23930 (1 litre) 23932 (5 litres)
40	Central hydraulic fluid (synthetic)	green	06161 (1 litre)
41	Central hydraulic fluid (mineral)	green	06162 (1 litre)
42	Hydraulic fluid, LHM-plus, (mineral)	green	24704 (1 litre)
43	Power steering fluid	green	21647 (1 litre)
44	Central hydraulic fluid	light brown	21648 (1 litre)
45	Power steering fluid (ATF)	yellow	08972 (1 litre)
46	Hydraulic fluid ZH-M	yellow	02615 (1 litre)
47	Automatic transmission fluid	red	08971 (1 litre) 30017 (5 litres)

Replacement no.	Manufacturer	Recommended applications
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DOT 4		
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DOT 4 Plus		
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81 22 9 407 758	BMW	
82 11 1 468 041	BMW	
000 043 203 33	Porsche	
G 004 000 M2	VW	VW TL 52146
G 002 000	VW	
1940 766	Opel	B 0400070
93 160 548	Saab	
09.11003.0427	MAN	MAN M 3289

81 22 9 407 549	BMW	
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9979.A1	Citroën	PSA B71 2710
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001 989 24 03	Mercedes-Benz	MB 345.0
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001 989 20 03	Mercedes-Benz	MB 344.0
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000 989 88 03/2	Mercedes-Benz	MB 236.3
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000 989 91 03	Mercedes-Benz	MB 343.0
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000 989 92 03	Mercedes-Benz	MB 236.2, 236.6, 236.7
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81 22 9 400 272	BMW	
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1940 700	Opel	Dexron II-D
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Replacement no.	Manufacturer	Recommended applications
		DEXRON III
83 22 0 402 413	BMW Mini	
83 22 7 542 29	BMW Mini	
9986195	GM	
G 052 990	VW	
G 055 025	VW	
	Aisin Warner	JWS 3309/Type T-IV
	Chrysler	ATF +3 / +4
	Daewoo	
	Daihatsu	Alumix ATF Multi
	Fiat	Typo T-IV
	Ford	Mercon M2C924-A
	Honda	ATF Z-I
	Hyundai	SP-II, SP-III
	Isuzu	Besco ATF-II, ATF-III
		JASO M315 Typ 1A
	Kia	Kia SP-II / SP-III
	Mazda	Mazda ATF D-III / M-3
	Mitsubishi	Mitsubishi SP-II / SP-III
	Nissan	Nissan ATF C, D, J
	Saab	Saab 3309
	Subaru	Subaru ATF / Special
	Suzuki	Suzuki ATF 3309
	Suzuki	Suzuki ATF 3317
	Toyota	Toyota T-II / T-III / T-IV
	Toyota	Toyota Type D-2/WS
83 22 0 397 114	BMW	Dexron VI
001 989 69 03	Mercedes-Benz	MB 236.41
-	Opel	
-	GM	
G 052 162 A2	VW	VW TL 521 62
		VW LT 71141
83 22 9 404 328	BMW	
001 989 22 03	Mercedes-Benz	MB 236.11
1940 707	Opel	

Applications

Page	Description	Colour	febi no.
51	Automatic transmission fluid		34608 (1 litre)
			38935 (5 litres)
			38936 (20 litres)
			38937 (60 litres)
NEW 52	Automatic transmission fluidgreen		39095 (1 litre)
			39096 (5 litres)
			39097 (20 litres)
			39098 (60 litres)
53	Automatic transmission fluidred Dexron III-H		22806 (1 litre)
			30018 (5 litres)
			26680 (60 litres)
			26681 (200 litres)
54	Automatic transmission fluidred		27001 (1 litre)
55	Automatic transmission fluidred		29449 (1 litre)
			36449 (5 litres)
			38901 (60 litres)
			38902 (205 litres)
56	Automatic transmission fluidblue		33889 (1 litre)
57	CVT gearbox oil	yellow	27975 (1 litre)

Replacement no.	Manufacturer	Recommended applications
G 055 005 A2	VW	ZF 6HP
83 22 0 144 137	BMW	
040000C90SG	Hyundai	
8432	Jaguar	
TYK500050	Land Rover	
83 22 2 152 426	BMW	
68157995AA	Chrysler	
02JDE 26444	Jaguar	
	Land Rover	LR 023288
	VW / Audi	G 060 162
		ZF Lifeguardfluid 8
001 989 21 03	Mercedes-Benz	MB 236.10
8 000 045	Ford	MERCON V
-	GM	Dexron III-G / III-H
001 989 45 03	Mercedes-Benz	MB 236.12
8 000 047	Ford	Ford M2C195-A
G 052 990 A2	VW	VW TL 521 62
		Ford M2C202-B
		Ford M2C922-A1
001 989 68 03	Mercedes-Benz	MB 236.14
001 989 78 03	Mercedes-Benz	MB 236.15
G 052 180 A2	VW	VW TL 521 80
001 989 46 03	Mercedes-Benz	MB 236.20

Replacement no.	Manufacturer	Recommended applications
G 052 182 A2	Audi / VW	
G 052 529 A2	Audi / VW	
83 22 2 148 578	BMW	
83 22 2 148 579	BMW	
83 22 0 440 214	BMW	
83 22 2 147 477	BMW	
9734.S2	Citroën	Citroën DCS
	Ford	Ford Powershift WSS-M2C936-A
001 989 85 03	Mercedes-Benz	MB 236.21
	Mitsubishi	XTC-SST DIA Queen SSTF-1
9734.S2	Peugeot	Peugeot DCS
1161838	Volvo	
-	universal	GL4 / GL5
001 989 26 03	Mercedes-Benz	MB 235.10
1940 182	Opel	API GL-4
G 052 178	VW	VW TL 521 78
G 052 512	VW	VW TL 525 12
G 055 726	VW	VW TL 726-Y
G 000 650		
G 052 150 A2	VW	
-	universal	MB 265.1
-	universal	
-	universal	
-	universal	

Applications

Page	Description	Colour	febi no.
67	Special grease for injectors and glow plugs	white	26712 (50 g) -
68	Fluid grease		03514 (1 litre)
69	Multi-purpose EP grease	green	28193 (400 g) 28194 (5 kg)
70	Screw locking	blue	26707 (10 g) 26708 (50 g)
71	Screw locking	green	26709 (10 g) 26710 (50 g)

Notes

1. The catalogue is copyright protected. Copies, even in excerpt form, are not permitted. Copyright by Ferdinand Bilstein GmbH + Co. KG.
2. Our General Terms and Conditions are binding for goods and services.
3. We reserve the right to design changes.
4. The replacement numbers shown in brackets have either been replaced or may be used optionally. We reserve the right to supply febi's current version.

Replacement no.	Manufacturer	Recommended applications
001 989 42 51		
universal		
001 989 08 51		
81495030015		
02.1040.45.00	various trucks	
medium strength	universal	
high strength	universal	

5. All data has been prepared with care. We cannot, however, accept any liability for correctness.
6. The images in this catalogue may differ from the parts supplied.
7. We supply aftermarket parts of consistent first-class quality.
8. The vehicle manufacturers' part numbers must not be used when invoicing vehicle owners.

- febi no. 32945 (1 litre)
- febi no. 32946 (4 litres)
- febi no. 32947 (5 litres)
- febi no. 32948 (60 litres)
- febi no. 39337 (200 litres)

febi SAE 5W-30 *longlifeplus* is an advanced state-of-the-art, low-ash universal engine oil for engines with the highest requirements suitable for BMW, Mercedes-Benz and VW with extended oil change intervals, soot particle filter and pump nozzle, common rail injection or petrol direct injection.



Recommended applications

- ACEA A3/B4-04/C3
- BMW Longlife-04
- MB 229.51
- VW 504 00/507 00

Properties		Unit	Test method
Density at 15° C		0,85 kg/l	DIN 51757
Boiling point	>	200 ° C	ISO 2592
Solidification point	<	-33 ° C	ISO 3016
Viscosity at -30° C	<	6600 MPas	DIN 51377
Viscosity at 40° C		72,5 mm ² /s	DIN 51562
Viscosity at 100° C		11,9 mm ² /s	DIN 51562

- febi no. 32941 (1 litre)
- febi no. 32942 (4 litres)
- febi no. 32943 (5 litres)
- febi no. 32944 (60 litres)
- febi no. 39336 (200 litres)

febi SAE 5W-30 **longlife** is an advanced state-of-the-art, low-ash engine oil for petrol and diesel engines with the highest requirements due to extended oil change intervals with and without soot particle filter.

- It meets what are currently the highest requirements for BMW, Mercedes-Benz, GM (Opel) and can also be used in VW petrol and diesel engines with pump-nozzle injection.



Recommended applications

- | | |
|--------------------|---------------------------|
| · API SN/CF | · GM Dexos 2 |
| · ACEA A3/B4-04/C3 | · MB 229.51 |
| · BMW Longlife-04 | · VW 502 00/505 00/505 01 |

Properties		Unit	Test method
Density at 15° C	0,85	kg/l	DIN 51757
Boiling point	>	200 ° C	ISO 2592
Solidification point	<	-39 ° C	ISO 3016
Viscosity at -30° C	<	6600 MPas	DIN 51377
Viscosity at 40° C		69,8 mm ² /s	DIN 51562
Viscosity at 100° C		11,8 mm ² /s	DIN 51562

- febi no. 32936 (1 litre)
- febi no. 32937 (4 litres)
- febi no. 32938 (5 litres)
- febi no. 32939 (60 litres)
- febi no. 32940 (200 litres)

SAE 5W-40 is a high-performance engine oil for modern petrol and diesel car engines by Mercedes-Benz, BMW, GM (Opel), Porsche and VW with extended change intervals.

- SAE 5W-40 is not suitable for vehicles with soot particle filter or pump-nozzle injection system.



Recommended applications

- API - SM/SL/CF
- ACEA A3/B3/B4-08
- BMW Longlife-98
- MB 229.3
- Opel LL-B 025
- Porsche
- VW 502.00 + 505.00

Properties	Unit	Test method
Density at 15° C	0,852 kg/l	DIN 51757
Boiling point	> 200 ° C	ISO 2592
Solidification point	< -36 ° C	ISO 3016
Viscosity at -30° C	< 6600 MPas	DIN 51377
Viscosity at 40° C	90 mm ² /s	DIN 51562
Viscosity at 100° C	13,8 mm ² /s	DIN 51562



- febi no. 32931 (1 litre)
- febi no. 32932 (4 litres)
- febi no. 32933 (5 litres)
- febi no. 32934 (60 litres)
- febi no. 32935 (200 litres)

SAE 10W-40 is a high-performance engine oil for heavy-duty petrol and diesel car engines.

- It is also very well suited for engines with turbochargers.
- The excellent viscosity/temperature ratio enables a high level of wear protection at both low and high temperatures.



Recommended applications

- API SL/CF
- ACEA A3/B3/B4-08
- MB 229.1
- VW 501 01/505 00

Properties		Unit	Test method
Density at 15° C	0,871	kg/l	DIN 51757
Boiling point	> 200	° C	ISO 2592
Solidification point	< -27	° C	ISO 3016
Viscosity at -30° C	< 7000	MPas	DIN 51377
Viscosity at 40° C	93,8	mm ² /s	DIN 51562
Viscosity at 100° C	13,7	mm ² /s	DIN 51562

- febi no. 32925 (1 litre)
- febi no. 32926 (4 litres)
- febi no. 32927 (5 litres)
- febi no. 32928 (25 litres)
- febi no. 32929 (60 litres)
- febi no. 32930 (200 litres)
- febi no. 80366 (1000 litres)

SAE 15W-40 is a high-grade, multi-functional multi-purpose engine oil for car and truck engines.

- The special formulation enables it to be used in car engines and also in heavy-duty truck engines with and without turbocharger.



Recommended applications

- | | |
|----------------------------|------------------|
| · ACEA E7 | · Deutz DQC-III |
| · ACEA A3/B3/B4 | · Mack EO-M PLUS |
| · API CI-4 /SL | · MAN 3275 |
| · VW 501 01 / 505 00 | · MB 228.3 |
| · MB 229.1 | · MTU Type 2 |
| · CAT ECF-1-a / ECF-2 | · Renault RLD-2 |
| · Cummins 200 76 / 77 / 78 | · Volvo VDS-3 |

Properties	Unit	Test method
Density at 15° C	0,885 kg/l	DIN 51757
Boiling point	> 200 ° C	ISO 2592
Solidification point	< -24 ° C	ISO 3016
Viscosity at -20° C	< 7000 MPas	DIN 51377
Viscosity at 100° C	14,3 mm ² /s	DIN 51562



- febi no. 32921 (1 litre)
- febi no. 32922 (5 litres)
- febi no. 38404 (20 litres)
- febi no. 32923 (25 litres)
- febi no. 32924 (60 litres)
- febi no. 38408 (200 litres)

SAE 20W-50 is a high-grade, multi-functional multi-purpose engine oil for car and truck engines.

- The particularly high viscosity ensures a stable lubricating film even under extreme conditions, e.g. high outside temperatures.



Recommended applications

- | | |
|---------------------------------|------------------|
| · ACEA E7 | · Mack EO-M PLUS |
| · ACEA A3/B3/B4 | · MAN 3275 |
| · API CI-4 /SL | · MB 228.3/229.1 |
| · Allison C4 | · MTU Type 2 |
| · CAT ECF-1-a/ECF-2 | · Renault RLD-2 |
| · Cummins 20071/-72/-76/-77/-78 | · Volvo VDS-3 |
| · Deutz DQC III-05 | |

Properties	Unit	Test method
Density at 15° C	0,885 kg/l	DIN 51757
Boiling point	> 200 °C	ISO 2592
Solidification point	< -18 °C	ISO 3016
Viscosity at -15° C	< 9500 MPas	DIN 51377
Viscosity at 100° C	18,5 mm ² /s	DIN 51562

SAE 10W-40 Truck Special longlifeplus

Truck 
Division

febi no. 34050 (25 litres)

febi no. 34051 (60 litres)

febi no. 34052 (200 litres)

febi SAE 10W-40 **Truck Special longlifeplus** is a low-ash engine oil for the highest requirements.

- Perfectly suited for state-of-the-art turbocharged truck engines with exhaust gas after treatment.
- Very low sulphate ash, phosphorous and sulphur content.
- Excellent wear protection, even with the longest oil change intervals.
- Enables a 3% lower fuel consumption compared to conventional multi-grade oil.



Recommended applications

- | | |
|----------------------|--------------------|
| · ACEA E9/E7/E6 | · MB 228.51 |
| · API CI-4 | · MTU DDC Type 3.1 |
| · CATERPILLAR ECF-1a | · RENAULT RXD RGD |
| · DEUTZ DQC III-05 | · VOLVO VDS-3 |
| · MACK EO-M PLUS | · VOITH-RETARDER |
| · MAN M 3477/3271-1 | |

Properties

Properties	Unit	Test method
Density at 15° C	0,861 kg/l	DIN 51757
Boiling point	> 200 ° C	ISO 2592
Solidification point	< -33 ° C	ISO 3016
Viscosity at 40° C	86 mm ² /s	DIN 51562
Viscosity at 100° C	13,5 mm ² /s	DIN 51562

SAE 10W-40 Truck Special longlife

Truck Division 

- febi no. 34047 (25 litres)
- febi no. 34048 (60 litres)
- febi no. 34049 (200 litres)

febi SAE 10W-40 **Truck Special longlife** is a high-performance engine oil for a large number of diesel engines for trucks, buses and driven machines with and without turbocharger.

- Specially developed for the requirements in heavy-duty engines with extended maintenance intervals.
- High wear protection even under severe operating conditions with full engine output.



Recommended applications

- | | |
|-----------------------|---------------------|
| · ACEA E7/E4 | · MTU DDC Type-3 |
| · API CI-4 | · RENAULT RXD/RLD-2 |
| · CUMMINS CES 20077/8 | · VOLVO VDS-3 |
| · DEUTZ DQC III-10 | · DAF |
| · MACK EO-M Plus | · IVECO 18-1804 |
| · MAN M 3277 | · SCANIA LDF-2 |
| · MB 228.5 | |

Properties		Unit	Test method
Density at 15° C	0,867	kg/l	DIN 51757
Boiling point	>	200 °C	ISO 2592
Solidification point	<	-33 °C	ISO 3016
Viscosity at 40° C	100	mm ² /s	DIN 51562
Viscosity at 100° C	14,6	mm ² /s	DIN 51562

Antifreeze (blue)



febi no. 01089 (1,5 litres)

febi no. 22268 (5 litres)

febi no. 22270 (20 litres)

febi no. 05011 (60 litres)

febi no. 31276 (210 litres)

e.g. repl. no. 81 22 9 407 454

febi 01089 is a longlife antifreeze and corrosion inhibitor for all liquid-cooled combustion engines.

- From a concentration of 25% or more, febi 01089 will protect against corrosion, cavitation, scale, silting up and foaming. The vehicle manufacturer's specifications must be adhered to in all cases.
- Can also be used without problems in engines with aluminium cylinder heads and radiators.
- febi 01089 is proven in practice and has been tested in units with fill specifications MAN 324, MB 325.0 and GM 1825 M.

Properties	Unit	Test method
Density at 15° C	1,13 kg/l	DIN 51757
Flash point	> 100 °C	DIN 51758
Ignition temperature	> 400 °C	DIN 51794
Boiling point	> 170 °C	ISO 2592
Viscosity 20° C	< 25 mm ² /s	DIN 51562

Total volume of the cooling system	Required quantity in litres			
	Low-temperature protection			
	to -20° C	to -25° C	to -30° C	to -35° C
3 l	1,0 l	1,2 l	1,3 l	1,5 l
4 l	1,4 l	1,6 l	1,8 l	2,0 l
5 l	1,7 l	2,0 l	2,2 l	2,5 l
6 l	2,0 l	2,4 l	2,7 l	3,0 l
7 l	2,4 l	2,8 l	3,1 l	3,5 l
8 l	2,7 l	3,2 l	3,5 l	4,0 l
9 l	3,0 l	3,6 l	4,0 l	4,5 l
10 l	3,4 l	4,0 l	4,4 l	5,0 l
12 l	4,0 l	4,8 l	5,3 l	6,0 l
14 l	4,7 l	5,6 l	6,2 l	7,0 l
16 l	5,3 l	6,4 l	7,1 l	8,0 l
18 l	6,0 l	7,2 l	7,9 l	9,0 l
20 l	6,7 l	8,0 l	8,8 l	10,0 l

Antifreeze (yellow-green)

- febi no. 02374 (1,5 litres)
- febi no. 88541 (5 litres)
- febi no. 75011 (60 litres)
- febi no. 89428 (210 litres)

e.g. repl. no. 000 989 08 25

febi 02374 is a nitrite-free longlife antifreeze with a high level of corrosion protection.

- Developed for use in modern, liquid-cooled combustion engines.
- Provides the cooling water with adequate corrosion protection even at concentrations as low as 20%.
- Protection against corrosion and cavitation, prevents deposits and foaming.



Properties		Unit	Test method
Density at 20° C	1,115	kg/l	DIN 51757
Flash point	> 100	° C	DIN 51758
Ignition temperature	> 400	° C	DIN 51794
Boiling point	> 170	° C	ISO 2592
Viscosity 20° C	< 25	mm ² /s	DIN 51562

Total volume of the cooling system	Required quantity in litres			
	Low-temperature protection			
	to -20° C	to -25° C	to -30° C	to -35° C
3 l	1,0 l	1,2 l	1,3 l	1,5 l
4 l	1,4 l	1,6 l	1,8 l	2,0 l
5 l	1,7 l	2,0 l	2,2 l	2,5 l
6 l	2,0 l	2,4 l	2,7 l	3,0 l
7 l	2,4 l	2,8 l	3,1 l	3,5 l
8 l	2,7 l	3,2 l	3,5 l	4,0 l
9 l	3,0 l	3,6 l	4,0 l	4,5 l
10 l	3,4 l	4,0 l	4,4 l	5,0 l
12 l	4,0 l	4,8 l	5,3 l	6,0 l
14 l	4,7 l	5,6 l	6,2 l	7,0 l
16 l	5,3 l	6,4 l	7,1 l	8,0 l
18 l	6,0 l	7,2 l	7,9 l	9,0 l
20 l	6,7 l	8,0 l	8,8 l	10,0 l

Antifreeze (red G12)



- febi no. 80325 (1 litre)
 - febi no. 01381 (1,5 litres)
 - febi no. 22272 (5 litres)
 - febi no. 22274 (20 litres)
 - febi no. 12710 (60 litres)
 - febi no. 33830 (210 litres)
- e.g. repl. no. G 012 A8D A1

febi 01381 is a longlife, antifreeze and corrosion inhibitor for grey cast iron and all-aluminium engines and meets the requirements of VW, Audi, Seat and Škoda with the following properties:

- Antifreeze down to -40°C – provides excellent protection against corrosion and deposits.
- Raises the boiling point. As a result an even discharge of heat is achieved.
- As little as 33% in the cooling system provides adequate corrosion protection and in addition frost protection down to -22°C .

Properties		Unit	Test method
Density at 20°C		1,116 kg/l	DIN 51757
Flash point	>	100 $^{\circ}\text{C}$	DIN 51758
Ignition temperature	>	400 $^{\circ}\text{C}$	DIN 51794
Boiling point	>	160 $^{\circ}\text{C}$	ISO 2592
Viscosity 20°C	<	15 mm ² /s	DIN 51562

Total volume of the cooling system	Required quantity in litres			
	Low-temperature protection			
	to -20°C	to -25°C	to -30°C	to -35°C
3 l	1,0 l	1,2 l	1,3 l	1,5 l
4 l	1,4 l	1,6 l	1,8 l	2,0 l
5 l	1,7 l	2,0 l	2,2 l	2,5 l
6 l	2,0 l	2,4 l	2,7 l	3,0 l
7 l	2,4 l	2,8 l	3,1 l	3,5 l
8 l	2,7 l	3,2 l	3,5 l	4,0 l
9 l	3,0 l	3,6 l	4,0 l	4,5 l
10 l	3,4 l	4,0 l	4,4 l	5,0 l
12 l	4,0 l	4,8 l	5,3 l	6,0 l
14 l	4,7 l	5,6 l	6,2 l	7,0 l
16 l	5,3 l	6,4 l	7,1 l	8,0 l
18 l	6,0 l	7,2 l	7,9 l	9,0 l
20 l	6,7 l	8,0 l	8,8 l	10,0 l

Antifreeze (purple G12+)

febi no. 19400 (1,5 litres)

febi no. 19402 (5 litres)

febi no. 22276 (20 litres)

febi no. 22278 (60 litres)

febi no. 33831 (210 litres)

e.g. repl. no. G 012 A8F A1

febi's 19400 outstanding properties meet and exceed the requirement of numerous manufacturers and foreign standards.

febi 19400 meets and exceeds the requirements of many manufacturers and foreign standards due to its outstanding properties.

- Provides engines with excellent protection against corrosion and cavitation.
- Prevents deposits and foaming.
- Protects hoses and gaskets.
- Mixable with silicate-free antifreezes.
- Equates to VW antifreeze "G12 plus" and is mixable with antifreezes 01089 (blue), 02374 (yellow), 01381 (red) and the antifreezes of other brand manufacturers.



Recommended applications

- | | |
|----------------------|---------------|
| • ASTM D3306 | • MAN 324 SNF |
| • ASTM D4340 | • MB 325.3 |
| • ASTM D4985 | • NF R 15 601 |
| • Ford ESE-M978B4H-A | • NATO S-759 |
| • GM 1825M | • SAE J1034 |
| • GM 1899M | • VW-TL 774 F |
| • GM Saturn | |

Properties

Properties	Unit	Test method
Density at 20° C	1,116 kg/l	DIN 51757
Boiling point	> 170 °C	ASTM D 1120
Solidification point 1:1	-38 °C	ISO 3016
Viscosity at 20° C	< 15 mm ² /s	DIN 51562

Frost protection down to

Frost protection down to	Proportion of antifreeze	Proportion of water
-38° C	50%	50%

Antifreeze (G12++)

NEW

febi no. 37400 (1,5 litres)

febi no. 37401 (5 litres)

febi no. 37402 (60 litres)

e.g. repl. no. G 012 A8G M1

febi 37400 is a universal, nitrite-free, amine-free and phosphate-free, long-term radiator anti-freeze concentrate on a mono ethylene glycol basis for modern aluminium and cast iron motors.

- Excellent corrosion protection
- Backwards compatible and can be mixed with branded anti-freezes of previous generations such as febi 01381 (VW G12) or febi 19400 (VW G12+) and thus an ideal anti-freeze concentrate for universal use.
- Recommended mixing ratio with water: 1:1 which represents an anti-freeze content of -37°C.



Recommended applications

- MAN 324 Typ Si-OAT
- Scania TB 1451
- MB 325.5 (000 989 28 25)
- VW TL 774-G (G12++) / G 012 A8G M1
- SAE J1034

Properties

Properties	Unit	Test method
Density at 20° C	1,12 kg/l	DIN 51757
Viscosity at 20° C	25 mm ² /s	DIN 51562
Boiling point	> 170 °C	ASTM D 1120

Antifreeze (G13)

febi no. 38200 (1,5 litres)

febi no. 38201 (5 litres)

febi no. 38202 (60 litres)

e.g. repl. no. G 013 A8J M1

NEW

febi 38200 is a long-term anti-freeze of the latest generation on a mono ethylene glycol and 20% glycerine basis. This combination, in conjunction with a modern, specially coordinated, additive package gives this radiator anti-freeze its excellent properties. As a result of the highest possible material compatibility febi 38200 is especially suited for use in modern motors. The protection from corrosion, deposits and cavitation has been improved further. Attention has been paid during manufacturing to ensure environmentally aware disposal is possible, thanks to the high proportion of glycerine and the consistent avoidance of phosphates, nitrites and nitrates.

febi 38200 was developed specifically for the vehicles of VW, Audi, Seat and Skoda and can be universally used in these vehicles and can also be mixed with previous generations of radiator anti-freeze.



Recommended applications

- VW TL 774-J G 013 A8J M1

Properties	Unit	Test method
Density at 20° C	1,15 kg/l	DIN 51757
Viscosity at 20° C	24 mm ² /s	DIN 51562
Boiling point	> 170 °C	ASTM D 1120

Antifreeze (green) Ready Mix -30° C Renault, Typ D

febi no. 26580 (1,5 litres)
febi no. 26581 (5 litres)
febi no. 26582 (25 litres)
e.g. repl. no. 77 11 171 589 S1

febi 26580 is a ready-mix with frost protection down to -30° C and was developed specifically for use in Renault engines.

- Ready-mix; no further dilution necessary.
- Protection against corrosion and cavitation, prevents deposits and foaming.
- Manufactured based on Texaco technology; therefore perfectly suited for all Renault engines.



Recommended applications

- | | |
|-------------------------------|-------------|
| · Renault Typ D | · SAE J1034 |
| · GM 1825M | · GM 1899M |
| · Ford ESE-M978B4H-A, AF plus | and other |

Properties

Properties	Unit	Test method
Density at 20° C	1,07 kg/l	DIN 51757
Boiling point	> 170 ° C	ASTM D 1120
Solidification point	-30 ° C	ISO 3016
Viscosity at 20° C	< 15 mm ² /s	DIN 51562

Antifreeze (blue) Ready Mix -30° C

febi no. 24196 (1,5 litres)

e.g. repl. no. 000 989 08 25 S2

febi 24196 is a coolant ready-mix with 40% proportion of antifreeze.

- Ready for use immediately.
- Achieves low-temperature protection down to -30° C.
- Nitrite-free antifreeze and corrosion inhibitor.
- Can also be used in engines with aluminium cylinder head.



Properties		Unit	Test method
Density at 20° C		1,05 kg/l	DIN 51757
Flash point	>	100 ° C	DIN 51758
Ignition temperature	>	400 ° C	DIN 51794

Brake fluid DOT 4

febi no. 26746 (0,25 litres)

febi no. 26461 (1 litre)

febi no. 21754 (5 litres)

febi 26461 is a fully synthetic brake fluid with oxidation and corrosion inhibitors.

- Mixable with any fully synthetic brake fluid.
- The requirements currently applicable in the recommended applications shown below are met and even exceeded on many points.



Recommended applications

- | | |
|-----------------------------|---------------------|
| · FMVSS 116 DOT 3. DOT4 | · SAE J 1703 |
| · ISO 4985 | · FORD SAM 6C9103 A |
| · DBL 7760 Typ DOT 4 | · FIAT |
| · General Motors GME L5 104 | · Renault 41-02-001 |
| · VAG TL 7766 X/Y | |

Properties

Properties	Unit	Test method
Viscosity at -40° C	max. 1500 cSt	DIN ASTM D 445
Density at 20° C	1,05 kg/l	DIN 51757
Wet boiling point ERBP	165 °C	DIN FMVSS 116
Boiling point ERBP	260 °C	DIN FMVSS 116

Brake fluid DOT 4 Plus

febi no. 26748 (0,25 litres)

febi no. 23930 (1 litre)

febi no. 23932 (5 litres)

febi 23930 is a fully synthetic brake fluid with oxidation and corrosion inhibitors.

- Fully synthetic brake fluid for hydraulic brake and clutch systems with a boiling point of at least 265° C and a wet boiling point of at least 180° C.
- Mixable with any other fully synthetic brake fluid.
- Particularly recommended for modern brake systems with anti-lock and stability systems.
- The requirements currently applicable in the recommended applications shown below are met and even exceeded on many points.



Recommended applications

- | | |
|-----------------------------------|------------------------------------|
| · FMVSS 116 DOT 4, DOT 3 | · SAE J 1703 |
| · ISO 4925 | · VW TL 766 X/Y |
| · GM/OPEL GME L5 104 | · FORD SAM 6C9103 A |
| · FIAT | · Renault 41-02-001 |
| · VAG TL 766 X/Y DOT 4 | · Jaguar XR83 M6C25 A, MNA 2829 AA |
| · Porsche Brake fluid Super DOT 4 | · MB DOT 4 plus (A 000 989 08 07) |
- and a large number of national and international standards

Properties		Unit	Test method
Viscosity at -40° C	max.	1500 cSt	DIN ASTM D 445
Density at 20° C		1,07 kg/l	DIN 51757
Wet boiling point ERBP	>	180 °C	DIN FMVSS 116
Boiling point ERBP	>	265 °C	DIN FMVSS 116

Central hydraulic fluid synthetic (green)

febi no. 06161 (1 litre)

e.g. repl. no. 81 22 9 407 758

febi 06161 (synthetic) central hydraulic fluid was developed for use in systems for the central hydraulic system level control, hydropneumatic suspension as well as active damping and steering in the application range from -40° C to +130° C.



- The outstanding low-temperature properties (synthetic oil) in conjunction with excellent shear stability ensure functional reliability even at high temperatures.
- The outstanding wear protection, measured in the FZG A/8 oil test, 3/90 damage performance level <12, means high wear-resistance for hydraulic pumps and valves.

Recommended applications

· BMW / MINI 83 29 0 429 576	· Opel 1940 766
· BMW 81 22 9 407 758	· Opel 1940 715
· Ford M2C204-A / 1 384 110	· Porsche 000 043 203 33
· Citroën PSA S71 2710 / LDS	· Volvo 30741424
· GM 1193160548	· VW G 002 000
· MAN M 3289	· VW G 004 000 M2
· Opel B 0400070	· VW TL 52146

Properties

Properties	Unit	Test method
Viscosity at 40° C	18,0 mm ² /s	DIN 51562
Viscosity at 100° C	6,2 mm ² /s	DIN 51562
Flash point	> 150 °C	DIN ISO 2592
Pour point	-54 °C	DIN ISO 3016

Central hydraulic fluid mineral (green)

febi no. 06162 (1 litre)

e.g. repl. no. 81 22 9 407 549

febi 06162 (mineral) central hydraulic fluid was developed for use in systems for the central hydraulic system/level control/hydropneumatic suspension as well as active damping and steering in the application range from -40° C to +100° C.

- In addition to the extremely favourable low-temperature viscosity, which ensures safe operation when used in cold countries, the mineral-based central hydraulic fluid is also perfectly suited to high temperatures up to approx. +100° C due to the composition of the additive base oil.



Properties	Unit	Test method
Viscosity at 40° C	16,0 mm ² /s	DIN 51562
Viscosity at 100° C	6,2 mm ² /s	DIN 51562
Flash point	> 150 ° C	DIN ISO 2592
Pour point	-54 ° C	DIN ISO 3016

Hydraulic fluid LHM-plus (green)

febi no. 24704 (1 litre)

e.g. repl. no. 9979.A1

febi 24704 is a mineral-based hydraulic fluid with excellent behaviour at low temperatures specifically for Citroën's hydropneumatic suspension.

- Designed for the application range from -40°C to $+100^{\circ}\text{C}$ and therefore also recommended for the latest developments in the vehicle hydraulics sector.



Recommended applications

- | | |
|----------------|--------------------|
| · PSA B71 2710 | · LHM-plus |
| · ISO 7308 | · DIN 51621 part 2 |

Properties	Unit	Test method
Viscosity at 40°C	16 - 23 mm^2/s	DIN 51562
Viscosity at 100°C	6 - 7,7 mm^2/s	DIN 51562
Density at 15°C	0,86 kg/l	DIN 51757
Flash point	> 100 $^{\circ}\text{C}$	DIN ISO 2592
Pour point	< -50°C	DIN ISO 3116

Power steering fluid (green)

febi no. 21647 (1 litre)

e.g. repl. no. 001 989 24 03

febi 21647 is a fully synthetic product which meets the requirements of MB 345.0.

- Optimised temperature resistance.
- Developed for maximum load central hydraulic systems, power steering systems and shock absorbers which can reach continuous oil temperatures up to +140° C.



Recommended applications

- MB 345.0

Properties	Unit	Test method
Viscosity at 40° C	18,9 mm ² /s	DIN 51562
Viscosity at 100° C	6,3 mm ² /s	DIN 51562
Density at 15° C	0,813 kg/l	DIN 51757
Flash point	150 °C	DIN ISO 2592
Pour point	< -54 °C	DIN ISO 3016

Central hydraulic fluid (light brown)

febi no. 21648 (1 litre)

e.g. repl. no. 001 989 20 03

febi 21648 is a high-grade central hydraulic fluid based on predominantly synthetic hydrocarbons.

- Contains a highly effective combination of active substances.
- Excellent wear protection of central hydraulic system components combined with a very low friction coefficient.



Recommended applications

- MB 344.0

Properties	Unit	Test method
Viscosity at 40° C	28,8 mm ² /s	DIN 51562
Viscosity at 100° C	6,2 mm ² /s	DIN 51562
Density at 15° C	0,850 kg/l	DIN 51757
Sheer stability KRL 20 h 5 kn	-10 %	DIN 51350-6
Flash point	200 ° C	DIN ISO 2592

Power steering fluid (yellow)

febi no. 08972 (1 litre)

e.g. repl. no. 000 989 88 03/2

Power steering fluid febi 08972 is a universal ATF at the performance level of Dexron II and is optimised specifically for use in steering gears.

- Particularly resistant to ageing, protects reliably against wear and corrosion and is therefore especially suitable for use in hydraulic power steering systems.



Recommended applications

- | | |
|----------------------------------|------------------|
| · Dexron II | · MB 236.3 |
| · Voith 55.6335 (standard drain) | · ZF - TE-ML 09 |
| · ZF - TE-ML 11 | · ZF - TE-ML 14A |
| · ZF - TE-ML 03D | · ZF - TE-ML 04D |
| · ZF - TE-ML 17C | |

Properties

Properties	Unit	Test method
Viscosity at 40° C	35,7 mm ² /s	DIN 51562
Viscosity at 100° C	7,5 mm ² /s	DIN 51562
Density at 15° C	0,882 kg/l	DIN 51757
Flash point	200 °C	DIN ISO 2592
Pour point	-45 °C	DIN ISO 3016

Hydraulic fluid ZH-M (yellow)

febi no. 02615 (1 litre)

e.g. repl. no. 000 989 91 03

febi 02615 mineral-based hydraulic fluid was developed for use in level control systems and central hydraulic systems of vehicles.

- Ensures excellent protection against oxidation and ageing due to a selected combination of additives.
- Is used when mineral oil based hydraulic media are recommended because of the operating conditions.



Recommended applications

- MB 343.0

Properties	Unit	Test method
Viscosity at 40° C	17,1 mm ² /s	DIN 51562
Viscosity at 100° C	4,5 mm ² /s	DIN 51562
Density at 15° C	0,877 kg/l	DIN 51757
Flash point	152 °C	DIN ISO 2592
Pour point	-60 °C	DIN ISO 3016

Automatic transmission fluid (red)

febi no. 08971 (1 litre)

febi no. 30017 (5 litres)

e.g. repl. no. 000 989 92 03

febi 08971 (ATF) is a very high-grade transmission fluid for automatic gearboxes based on solvent-refined base oils.

- Developed for use in automatic transmissions, hydraulic steering systems, torque converters and power transmissions.
- Usable in transmissions with ATF Dexron II D fill specification.



Recommended applications

- | | |
|--|--------------------------|
| · GM Dexron II D | · MB 236.2, 236.6, 236.7 |
| · Ford SQM-9010B | · Cat-TO-2 |
| · Voith | · Renk |
| · Ford M2C-138CJ, 166 H, 185 A, CVT | · Mercon |
| · Allison C3/C4, ZF TE-ML-03, 09, 11, 14 | |

Properties	Unit	Test method
Viscosity at 40° C	43,20 mm ² /s	DIN 51562
Viscosity at 100° C	8,25 mm ² /s	DIN 51562
Density at 15° C	0,870 kg/l	DIN 51757
Flash point	198 °C	DIN ISO 2592
Pour point	-42 °C	DIN ISO 3016

Automatic transmission fluid for Asian vehicles (red)

febi no. 29934 (1 litre)

e.g. repl. no. 08886-80506

febi 29934 is a state-of-the-art high-performance automatic transmission fluid specially designed for automatic transmissions of Asian vehicles. It is distinguished by an increased torque capacity which meets and in many cases even exceeds the vehicle manufacturers' requirements.



- Particularly suitable for use in AISIN-WARNER automatic transmissions which are fitted mainly in Asian vehicles but also in US and European vehicles. It is characterised by:
 - Permanently high friction coefficient.
 - Excellent stability to ageing and oxidation.
 - Maximum wear protection.

Recommended applications

· Aisin Warner JWS 3309/Type T-IV	· Isuzu Besco ATF-II, ATF-III
· BMW Mini 83 22 0 402 413, 83 22 7 542 290	· JASO M315 Typ 1A
· Chrysler ATF +3 / +4	· KIA SP-II, SP-III
· Daewoo	· Mazda ATF D-III, M-3
· Daihatsu Alumix ATF Multi	· Mitsubishi SP-II, SP-III
· DEXRON III	· Nissan ATF C, D, J
· Fiat Typo T-IV	· Saab 3309
· Ford Mercon M2C924-A	· Subaru ATF, ATF Spezial
· GM 9986195	· Suzuki ATF 3309, 3317
· Honda ATF Z-I	· Toyota Typ T, T-II, T-III, T-IV, D-2, WS
· Hyundai SP-II, SP-III	· VW G 052 990
	· VW G 055 025

Properties

Properties	Unit	Test method
Viscosity at 40° C	37,3 mm ² /s	DIN 51562
Viscosity at 100° C	7,3 mm ² /s	DIN 51652-1
Density at 15° C	0,852 kg/l	DIN 51757
Flash point	216 °C	DIN ISO 2592
Pour point	-44 °C	DIN ISO 3016

Automatic transmission fluid

febi no. 32600 (1 litre)
febi no. 32605 (5 litres)

e.g. repl. no. Dexron VI

febi 32600 is a state-of-the-art automatic transmission fluid for the highest requirements in automatic transmissions and power steering systems with fill specifications according to DEXRON VI.

- Downwardly compatible and mixable with older DEXRON II and DEXRON III fill specifications.
- Perfectly suited for streamlining of grades.
- Consists of high-grade base oils and a state-of-the-art additive package.
- Very high level of wear protection and high functionality over the entire life cycle.
- Good wear protection even at high temperatures.
- Its excellent viscosity/temperature ratio ensures outstanding lubrication capacity even at low temperatures.
- To achieve full performance of febi 32600, it is recommended to change the transmission fluid completely and to flush the gearbox thoroughly before the final filling takes place.



Recommended applications

- DEXRON VI
- VOITH H55.6335.3X
- BMW 81 22 9 400 275, 81 22 3 407 738, 81 33 9 400 272, 83 22 0 142 156, 83 22 0 403 248, 83 22 0 403 249, 83 22 0 432 807, 83 22 9 407 858, 83 22 9 407 859
- Mercedes MB 236.41 (A 001 989 6903)

Properties	Unit	Test method
Viscosity at 40° C	30,6 mm ² /s	DIN 51562
Viscosity at 100° C	6,1 mm ² /s	DIN 51562
Density at 15° C	0,845 kg/l	DIN 51757
Flash point	205 °C	DIN ISO 2592
Pour point	-50 °C	DIN ISO 3016

Automatic transmission fluid (yellow)

febi no. 14738 (1 litre)

febi no. 29738 (5 litres)

e.g. repl. no. G 052 162 A2

febi 14738 is a high-grade automatic transmission fluid with long-term properties for extended oil change intervals.

- The basis of this semi-synthetic oil are high-grade base oils and special additives which are specifically matched in their composition for use in automatic transmissions and lock-up clutches.



Recommended applications

- | | |
|-----------------------------|------------------------|
| · BMW 83 22 9 404 328 | · VOITH G 1363 |
| · BMW/Mini 83 22 9 407 858 | · VW/Audi G 052 162 A2 |
| · Jaguar JLM 20238 | · VW LT 71141 (ESSO) |
| · Peugeot 9736.22 | · VW TL 521 62 |
| · MB 236.11 (001 989 22 03) | · ZF TE-ML 11B, 14B |
| · VOITH G 607 | |

Properties

Properties	Unit	Test method
Viscosity at 40° C	37 mm ² /s	DIN 51562-T1
Viscosity at 100° C	7,4 mm ² /s	DIN 51562-T1
Density at 15° C	0,855 kg/l	DIN EN ISO 12185
Flash point	219 °C	DIN ISO 2592
Pour point	-54 °C	DIN ISO 3016

Automatic transmission fluid (yellow)

- febi no. 34608 (1 litre)**
 - febi no. 38935 (5 litres)**
 - febi no. 38936 (20 litres)**
 - febi no. 38937 (60 litres)**
- e.g. repl. no. G 055 005 A2

febi 34608 is state-of-the-art automatic transmission fluid, specially developed for use in ZF 6-speed automatic gearboxes.

- ZF 6HP19
- ZF 6HP19X (ex. Audi Q7)
- ZF 6HP21
- ZF 6HP21X
- ZF 6HP26
- ZF 6HP26X
- ZF 6HP26A61 (ex. Audi W12)
- ZF 6HP28
- ZF 6HP28X
- ZF 6HP28A61
- ZF 6HP32
- ZF 6HP32A
- ZF 6HP32X

The vehicle manufacturers' change intervals must be adhered to!



Recommended applications

- | | |
|--------------------------------|------------------------------|
| · BMW 83 22 0 144 137 | · Land Rover TYK500050 |
| · BMW 1375.4 | · VW/Audi G 055 005 A1/A2/A6 |
| · BMW 83 22 0 142 516 | · ZF Getriebe (S671 090 255) |
| · Hyundai 040000C90SG | · Bentley PY 112995PA |
| · Hyundai/KIA ATF SP-IV | · Maserati 231603 |
| · Jaguar Fluid 8432 (C2C 8432) | |

Properties	Unit	Test method
Viscosity at 40° C	29,6 mm ² /s	DIN 51562
Density at 15° C	0,85 kg/l	DIN 51757
Flash point	200 °C	DIN ISO 2592

Automatic transmission fluid (green)

NEW

febi no. 39095 (1 litre)
febi no. 39096 (5 litres)
febi no. 39097 (20 litres)
febi no. 39098 (60 litres)

e.g. repl. no. G 060 162 A2

febi 39095 is a specially developed, extremely modern automatic transmission oil for the current generation of 8-gear automatic gearboxes from ZF.

The high-quality base oils and additives are coordinated specifically for use in the ZF 8HP automatic gearboxes and enable the highest possible gear switching comfort and maximum wear protection over the entire change interval. febi 39095 is intended solely for use in the automatic gearboxes of ZF with the filling specifications ZF Lifeguardfluid 8. In order to prevent confusion with previous gear oil generations, this oil is coloured green.

In order to achieve the full performance capability of febi 39095, it is recommended to change the gear oil fully including the filter and to carry out a thorough rinse of the gearbox before filling properly.



Recommended applications

- | | |
|-----------------------|--|
| • BMW 83 22 2 152 426 | • Land Rover LR 023288 |
| • Chrysler 68157995AA | • VW / Audi G 060 162 |
| • Jaguar 02JDE 26444 | • ZF Lifeguardfluid 8
(ZF S671 090 312) |

Properties

Properties	Unit	Test method
Density at 15 °C	0,848 kg/l	DIN 51 757
Viscosity at 40 °C	28,6 mm ² /s	DIN 51 562-1
Viscosity at 100 °C	6,3 mm ² /s	DIN 51 562-1
Pour point	-50 °C	DIN ISO 3016

Automatic transmission fluid (red)

- febi no. 22806 (1 litre)
- febi no. 30018 (5 litres)
- febi no. 26680 (60 litres)
- febi no. 26681 (200 litres)

e.g. repl. no. 001 989 21 03

febi 22806 is a universal ATF for all automatic transmissions with and without regulated torque converter lock-up clutch.

- Ensures maximum wear protection in any operating condition.
- Very high thermal stability.
- Provides reliable protection against wear, silting up, corrosion and seizing.
- Particularly good viscosity/temperature ratio.
- Can be mixed with all branded ATFs without problem.
- Low-foam even in severe conditions.



Recommended applications

- Dexron III-H
- Dexron II-D
- Type Allison C-4
- MB 236.1, 236.6, 236.7, 236.9, 236.10
- Dexron III, Dexron III-G
- Ford Mercon & Mercon V
- ZF TE-ML11, 14

Properties	Unit	Test method
Viscosity at 40° C	31,8 mm ² /s	DIN 51562
Viscosity at 100° C	7,1 mm ² /s	DIN 51562
Density at 15° C	0,85 kg/l	DIN 51757
Flash point	> 170 °C	DIN ISO 2592
Pour point	-48 °C	DIN ISO 3016

Automatic transmission fluid (red)

febi no. 27001 (1 litre)

e.g. repl. no. 001 989 45 03 (ATF 3353)

febi 27001 is based on selected base oils for use in fully-automatic car transmissions. febi 27001 is also characterised by its fuel efficiency potential as a result of the balance between viscosity and additive systems.

- Can also be used in units with Dexron III fill specification.



Recommended applications

- FORD M2C195-A
- FORD M2C922-A1
- FORD M2C202-B
- MB 236.12

Properties

Properties	Unit	Test method
Viscosity at 100° C	6,3 mm ² /s	DIN 51562
Density at 15° C	0,848 kg/l	DIN 51757
Flash point	190 °C	DIN ISO 2592
Pour point	-54 °C	DIN ISO 3016

Automatic transmission fluid (red)

febi no. 29449 (1 litre)

febi no. 36449 (5 litres)

febi no. 38901 (60 litres)

febi no. 38902 (205 litres)

e.g. repl. no. 001 989 68 03 (ATF 134)

febi 29449 is an ultra high performance automatic transmission fluid for 5 and 7-speed automatic gearboxes by Mercedes-Benz up to production date 18.06.2010 to optimise gearshift comfort (gears 722.6XX and 722.9XX).

Selected base oils and special additives enable:

- Outstanding behaviour at low temperatures.
- Optimised, exceptionally constant friction behaviour and as a result good gear changing behaviour over the entire operating time.
- Mixable with conventional branded ATFs.

We recommend that you change the transmission oil completely and flush out the gearbox and the torque converter so that you can utilise the advantages of febi 29449 to the full.



Recommended applications

- MB 236.14

Properties	Unit	Test method
Viscosity at 40° C	29,6 mm ² /s	DIN 51562-1
Density at 15° C	0,85 kg/l	DIN 51757
Flash point	> 200 °C	DIN ISO 2592
Pour point	-51 °C	DIN ISO 3016

Automatic transmission fluid (blue)

febi no. 33889 (1 litre)

e.g. repl. no. 001 989 78 03

febi 33889 is a new generation, state-of-the-art fuel economy ATF for Mercedes-Benz latest 7-speed automatic gearboxes after production date 21.06.2010.

- Was developed specifically for the requirements of the latest 7-speed gearboxes (722.9).
- Has a particularly low viscosity and therefore increases gearbox efficiency.
- Very high level of wear protection over the entire life cycle.
- Ensures a very stable friction coefficient and optimum low-temperature properties.

Note:

febi 33889 is not downwardly compatible with the previous ATFs. It may only be used from the production date of 21.06.2010. It is not suitable for vehicles with engine OM 629 (8-cylinder diesel) and older transmissions with fill specification 236.14 (red ATF)!

This ATF is therefore dyed blue to make it easier to distinguish between the fluids and to prevent errors.

The vehicle manufacturers' change intervals must be adhered to!



Recommended applications

- Mercedes MB 236.15

Properties	Unit	Test method
Viscosity at 40° C	18,8 mm ² /s	DIN 51562
Viscosity at 100° C	4,5 mm ² /s	DIN 51562
Density at 15° C	0,848 kg/l	DIN 51757
Flash point	> 200 °C	DIN ISO 2592
Pour point	-50 °C	DIN ISO 3016

CVT gearbox oil (yellow)

febi no. 27975 (1 litre)

e.g. repl. no. G 052 180 A2

febi 27975 is a high-performance automatic transmission fluid for use in CVT gearboxes with thrust link belt or traction chain. As a result, it is very well suited for the CVT Autotronic transmission of Mercedes-Benz A and B class (BM 169, 245), Audi Multitronic and also for use in CVT transmissions of Ford, BMW Mini, Nissan, Subaru and Toyota.

The special synthetic base oils ensure:

- Very good wear protection, particularly under difficult ambient conditions in CVT gearboxes.
- Optimum low-temperature properties.
- Low friction losses.
- Optimum friction behaviour over the entire change interval.



Recommended applications

- | | |
|-----------------------------|----------------------------|
| • BMW Mini 83 22 0 136 376 | • Nissan NS-II |
| • BMW Mini 83 22 0 429 | • Subaru NS-II |
| • Ford WSS-M2C928-A | • Toyota TC |
| • MB 236.20 (001 989 46 03) | • VW TL 52 180 (G 052 180) |

Properties	Unit	Test method
Viscosity at 40° C	34 mm ² /s	DIN 51562
Density at 15° C	0,848 kg/l	DIN 51757
Flash point	> 210 °C	DIN ISO 2592

DSG gearbox oil (yellow)

NEW

febi no. 39070 (1 litre)
febi no. 39071 (5 litres)



The new febi DSG gear oil is a high-performance gear oil which can be used for numerous applications and is thus suitable for use with vehicles with DSG or direct-shift gearboxes. These include both the 6 gear direct-shift gearboxes from VW, Audi, Seat and Skoda, but also the 7 gear direct-shift gearboxes (coupling element) and a wide range of other DSG gearboxes from BMW, Ford, Volvo, Mercedes or Peugeot / Citroën. This makes the new febi DSG gear oil an excellent choice as rationalisation oil, since many vehicles can be filled with a single oil.

In order to achieve the full performance capability of febi 39070, it is recommended to change the gear oil fully including the filter and to carry out a thorough rinse of the gearbox before filling properly.

Recommended applications

- VW / Audi 6-gear DSG (G 052 182 A2)
 - VW / Audi 7-gear DSG (coupling element) (G 052 529 A2)
 - BMW 7- gear Drivelogic
- | | |
|---------------------|----------------------|
| EU: 83 22 2 148 578 | USA: 83 22 0 440 214 |
| 83 22 2 148 579 | 83 22 2 147 477 |
- Ford Powershift (WSS-M2C936-A)
 - Mercedes MB 236.21 (001 989 85 03)
 - Mitsubishi XTC-SST / DIA Queen SSTF-1
 - Peugeot / Citroen DCS (9734.S2)
 - Renault EDC
 - Volvo Powershift (1161838)

Properties

Properties	Unit	Test method
Density at 15 °C	0,849 kg/l	DIN 51 757
Viscosity at 40 °C	33,2 mm ² /s	DIN 51 562-1
Viscosity at 100 °C	7,1 mm ² /s	DIN 51 562-1
Pour point	-45 °C	DIN ISO 3016

Universal transmission fluid SAE 75W-90 (GL-5)

febi no. 32590 (1 litre)

febi 32590 is a partially synthetic multi-purpose transmission fluid for manual gearboxes and axle drives

- Highly shear-resistant.
- Offers reliable protection against wear even under severe conditions in heavy-duty axle gears and at high temperatures.
- Also excellently suitable for manual gearboxes due to the particularly good viscosity/temperature ratio.
- Offers good gear changing comfort even at low temperatures.
- Good wear protection even at high temperatures.
- Protects against corrosion.
- Universally usable in gear shifts and axle drives but only if no multi-plate LSD is fitted.



Recommended applications

- | | |
|-----------------------|-----------|
| · API GL-5 / API GL-4 | · SAE 80W |
| · SAE 75W-90 | · SAE 85W |
| · SAE 80W-90 | · SAE 90W |

Properties	Unit	Test method
Viscosity at 40° C	114 mm ² /s	DIN 51562
Viscosity at 100° C	15,2 mm ² /s	DIN 51562
Density at 15° C	0,866 kg/l	DIN 51757
Flash point	> 170 °C	DIN ISO 2592
Pour point	-44 °C	DIN ISO 3016

Transmission fluid SAE 75W (yellow) (GL-4)

febi no. 21829 (1 litre)

e.g. repl. no. G 052 171 A1 / A2

febi 21829 is a high-grade universal FE transmission fluid (fuel economy) for all manual gearboxes that require low-viscosity oils to reduce fuel consumption in accordance with manufacturers' specifications.

- Allows to save fuel.
- Very high thermal stability.
- Provides reliable protection against wear, silting up, corrosion and seizing.
- Particularly good viscosity/temperature ratio.
- Can be mixed with all branded manual transmission fluids without problem.
- Low-foam even in severe conditions.
- Streamlining to one manual transmission fluid with many possible applications.



Recommended applications

- | | |
|-----------------------------|----------------------------|
| · API GL-4 | · VW TL 525 12 (G 052 512) |
| · MB 235.10 (001 989 26 03) | · VW TL 726 Y (G 055 726) |
| · VW TL 521 71 (G 052 171) | · VW G 052 171 A2 |
| · VW TL 521 78 (G 052 178) | |

Properties

Properties	Unit	Test method
Viscosity at 40° C	41 mm ² /s	DIN 51562-T1
Density at 15° C	0,877 kg/l	DIN 51757
Flash point	221 °C	DIN ISO 2592
Pour point	-42 °C	DIN ISO 3016

Brake pad paste (white)

febi no. 26711 (100 g)

e.g. repl. no. G 000 650

febi 26711 is a white, metal-free, anti-seize ceramic paste. Use this product to prevent noise (squealing) in disc brake pads.

- Metal-free and therefore suitable for all aluminium and cast iron brake calipers.
- Resistant to hot and cold water and to most acids and bases.
- Usable in the temperature range from -30° C to +1400° C.
- Perfectly suited for separation and as corrosion protection for threads, bolts, pins etc. exposed to high temperatures.



Properties	Unit	Test method
Density at 15° C	1,2 g/ml	SEB 181301
Dropping point	without ° C	DIN ISO 2176

Special installation grease

NEW

febi no. 31942 (100g)
e.g. repl. no. G 052 150 A2

febi 31942 is a lithium-complex saponified special grease for the installation of plastic bearings on the basis of polyethylene glycol base oils.

febi 31942 is particularly stable under pressure, protecting from wear of the bearing on installation and is characterised by a particularly good elastomer compatibility. As a result, febi special lithium grease is excellent for the installation of plastic bearing used, for example, in the chassis of many vehicles from VW / Audi.

How to use:

Housing and bearing must be clean, dry and free from dust, rust or other residues. Apply febi special lithium grease evenly to the bearing and press into place with a suitable tool. Remove excess grease after mounting.



Properties	Unit	Test method
Dropping point	>250 °C	IP 396
NLGI- class	1-2	DIN 51818
temperature range	-40 to +160 °C	DIN 51825

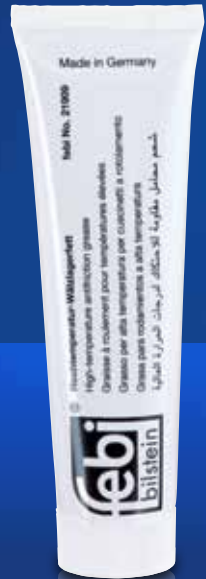
High-temperature anti-friction bearing grease (green)

febi no. 21909 (150 g)

e.g. repl. no. 002 989 00 51

febi 21909 is a multi-purpose EP grease suitable for use in a wide range of temperatures. It consists of a mineral base oil in conjunction with high-grade lithium complex soap and a special combination of additives.

- The special active EP substances improve pressure absorption capacity so that safe lubrication is guaranteed even in extreme conditions.
- Lifetime lubrication for anti-friction bearings exposed to high thermal loads.
- Excellent corrosion protection properties.
- Area of application: : -30° C to +150° C (to +200° C with continuous relubrication).



Properties		Unit	Test method
Base oil viscosity at 40° C		170 mm ² /S	DIN 51562
Solid lubricants	>	200 ° C	DIN ISO 2592
Flow pressure at -35° C	<	1600 hPa	DIN 51805
Dropping point	>	250 ° C	DIN ISO 2176
Density		0,9 g/cm ³	CB Stan 0001

Ring joint grease for constant velocity joints

febi no. 02597 (100 g)

e.g. repl. no. 001 989 03 51/10
to fit Mercedes-Benz

febi 02597 is a high-grade ring joint grease with good emergency run characteristics. It contains a highly shear-resistant lithium 12-hydroxystearate soap and the solid lubricant additive MoS₂ to improve pressure absorption capacity, corrosion protection and adhesion.

- Ideal for friction partners with low glide speed and high pressure.
- Versatile applications, for example lubrication of joints, PTO drive shafts, plain bearings, fifth wheel couplings and king pins.



Properties	Unit	Test method
Base oil viscosity at 40° C	125 mm ² /s	DIN 51562
Flow pressure at -35° C	1200 mbar	DIN ISO 2592
Dropping point	> 180 °C	DIN ISO 2176
Density	0,890 g/cm ³	CB Stan 0001

High-temperature grease for constant velocity joints

febi no. 03630 (120 g)

e.g. repl. no. G 052 133 A3

febi 03630 is a high-performance grease based on high-temperature resistant base materials. The composition ensures long-term lubrication at low and high temperatures and enables lifetime lubrication of CV joints.

- Resistant to hot and cold water.
- Usable in the temperature range from -35° C to +150° C (short-term up to +170° C).



Properties	Unit	Test method
Base oil viscosity at 40° C	150 mm ² /s	DIN 51562
Flash point >	200 ° C	DIN ISO 2592
Solid lubricant	45 mm ² /s	DIN 51562-1
Dropping point	180 ° C	DIN ISO 2176
Density	0,9 g/cm ³	CB Stan 0001

Lubricating grease for constant velocity joints

febi no. 02582 (90 g)

e.g. repl. no. G 000 603

febi 02582 PTO drive shaft grease is a high-grade lithium soap grease with MoS₂ as solid lubricant which was developed specifically for highly-stressed homokinetic joints.

- febi 02582 PTO drive shaft grease is suitable for lifetime lubrication of both plunge joints and fixed joints.
- Application range -35° C to +130° C.



Recommended applications

- Ford SMIC-9004A
- VW TL 738
- Opel B 0400265

Properties

Properties	Unit	Test method
Density	ca. 0,9 g/cm ³	DIN 51757
Flash point	224 °C	DIN ISO 2592
Dropping point	180 °C	DIN ISO 2176
Consistency class	2	DIN 51818

Special grease (white) for injectors and glow plugs

febi no. 26712 (50 g)

e.g. repl. no. 001 989 42 51

febi 26712 is a special paste to prevent corrosion between injectors and glow plugs and the cylinder head.

- Reliably prevents corrosion between injectors and cylinder head.
- Temperature resistant up to +1400° C
- specifically for use under the most extreme conditions.
- Recommended for all common rail injectors and glow plugs.
- Resistant to most acids and bases.



Application

Clean surface and apply a thin film of febi 26712 evenly on the surfaces. Wipe off excess.

Do not use as lubricant!

Properties	Unit	Test method
Dropping point	without ° C	DIN ISO 2176
Density at 15° C	1,2 g/ml	SEB 181301

Fluid grease

febi no. 03514 (1 litre)

e.g. repl. no. 001 989 08 51

febi 03514 is a high-grade, ageing-resistant liquid grease with distinctive rust protection based on lithium soap, selected base oils and active substances.

- Temperature stable, pressure resilient, wear reducing and water resistant.
- Good adhesion to metal surfaces.
- Can be conveyed well even at low temperatures in central lubrication systems for fluid grease.
- Application range -40° C to +120° C.



Recommended applications

· MB 6833.00

· Willy Vogel AG

Properties	Unit	Test method
Dropping point	160 °C	DIN ISO 2176
Flow pressure at -35 °C	< 60 hPa	DIN 51805
Base oil viscosity at 40° C	45 mm ² /s	DIN 51562-1
Base oil viscosity at 100° C	6 mm ² /s	DIN 51562-1
Marking: KP000 K-40	890	DIN 51502

High-temperature multi-purpose EP grease (green)

febi no. 28193 (400 g)

febi no. 28194 (5 kg)

e.g. repl. no. 02.1040.45.00

febi 28193 is a universal HT, EP multi-purpose grease (high temperature, extreme pressure) with a wide temperature range for all areas of application that require a lubricating grease based on lithium complex soap. Mineral base oils in conjunction with high-grade lithium complex soap and special additives give the product its outstanding properties.

- Active EP substances facilitate use in anti-friction and plain bearings, particularly also for heavy-duty truck wheel bearings.
- Perfect for long-term and lifelong lubrication of universal joints, cardan and PTO drive shafts thanks to the excellent corrosion protection.
- Area of application: -30° C to +150° C (to +200° C with continuous relubrication).
- Resistant to ageing.
- Anti-corrosion.
- Reduces wear.
- General plastics compatibility.



Properties		Unit	Test method
Base oil viscosity at 100° C	14	mm ² /S	DIN 51562
Flow pressure at -30° C	< 1400	hPa	DIN 51805
Dropping point	> 250	° C	DIN ISO 2176
Density	0,9	g/cm ³	DIN 51757

screw locking medium strength (blue)

febi no. 26707 (10 g)

febi no. 26708 (50 g)

e.g. repl. no. 243

febi 26707 is an anaerobic liquid synthetic which hardens on contact with metals in the absence of oxygen. Its short hardening times and high functional reliability make the product ideal for locking and sealing screws, nuts, threaded bolts and stud bolts. This reliably prevents loosening of the connections due to vibrations even under the most extreme ambient conditions.

- Highly resistant to heat, corrosion, vibration, water and oil.
- Easily loosened.
- Usable in the temperature range from -55° C to +150° C.
- Hand-tight after 10-20 minutes.
- Secure after three hours.



Properties	Unit
Density at 25° C	1,05 g/ml
Flash point	> 100 °C
Viscosity	2000 - 7500 mPas
Breakaway torque (ISO 10964)	17 - 22 Nm

screw locking high strength (green)

febi no. 26709 (10 g)

febi no. 26710 (50 g)

e.g. repl. no. 270

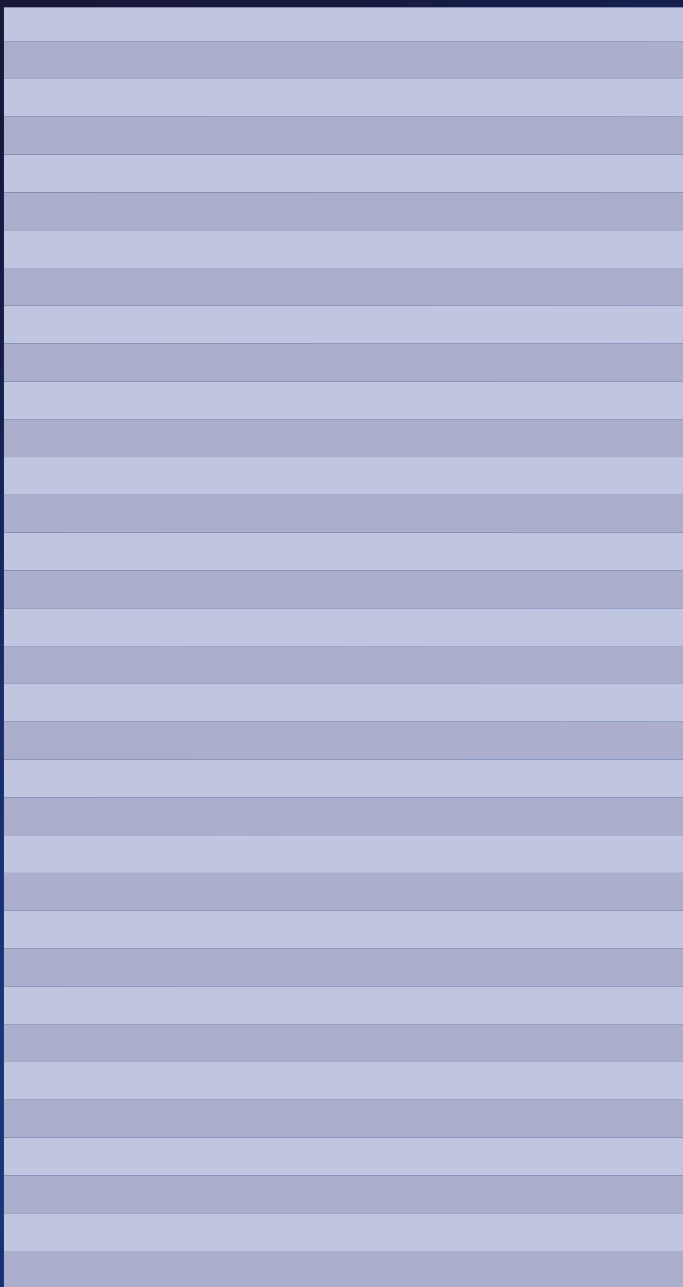
febi 26709 is an anaerobic liquid synthetic which hardens on contact with metals in the absence of oxygen. Its short hardening times and high functional reliability make the product ideal for locking and sealing screws, nuts, threaded bolts and stud bolts. This reliably prevents loosening of the connections due to vibrations even under the most extreme ambient conditions.

- Difficult to remove and resistant to heat, corrosion, vibration, water and oil.
- Usable in the temperature range from -55° C to +150° C.
- Hand-tight after 10-20 minutes.
- Secure after five to ten hours.



Properties	Unit
Density at 25° C	1,1 g/ml
Flash point	> 100 °C
Viscosity	500 - 600 mPas
Breakaway torque (ISO 10964)	28 - 35 Nm

A large rectangular area with horizontal light blue and white stripes, intended for writing notes.



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