SWAG
GERMANY

SWAG
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Liquids

www.swag.de

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SWAG Autoteile GmbH
Gewerbestraße 18-20
58285 Gevelsberg · Germany
T +49 2332 5539-0
F +49 2332 5539-710
E-Mail info@swag.de

4 044688 544452

SWAG No.: 98 00 1040 · 08/08 · 2.500

Best Choice for Spare Parts

More than 50 years of experience in the automobile industry

SWAG is one of the leading global wholesale partners with manufacturer competence for automotive wear parts on the free spare parts market. SWAG has been a synonym for high quality with extremely short delivery times since 1954.

We are a strategic partner of leading manufacturers of the automobile supplier industry and a distributor of high-quality spare parts for motor vehicles.

„Best Choice for Spare Parts“

This motto is an obligation for us – and your benefit. Because SWAG stands for

- Market-oriented packaging units
- More than 13.000 common wear parts for German, European and Asian vehicle types

High availability from stock – short delivery times

Our high availability from stock and short delivery times give our customers and partners a maximum in planning reliability.

Protection costs: Euro 1,20

Oil - Antifreeze - Grease

SWAG oils are not multipurpose products, but rather geared towards the specific requirements of vehicle manufacturers. SWAG supplies top quality at favourable prices as an alternative to OEM parts.

SWAG antifreeze excels on account of the fact that compared with antifreeze from other manufacturers, it contains qualities approved by the vehicle manufacturers.

SWAG greases are exceptionally well suited for use with almost all cars and commercial vehicle models and cover the entire range of deployment areas within the automobile. SWAG greases fulfil the stringent requirements of the motor-vehicle industry and are suited for use in, e.g. CV joints or in centralised lubrication systems.

Packaging design subordinate to excellent use:
- Unambiguous product identification
- Similar applies to the product colour code
- Easier to top up with due to the handle recesses
- Visible markings for filling height
- Discharge proof
- Recycling-capable PE plastic tabs
- Country-specific approvals (SASO, SAE, etc.)

Modifications and errors are excepted

Applications) as from 96) up to 96

Designation	SWAG No.	Comp. No.	Audi	BMW	Mercedes-Benz	Fiat
Antifreeze	99 90 1381	G 012 A8DA1	X			
		1089240 S				
		1940 663 S1				
Antifreeze	99 90 2374	000 989 08 25			■	
		5 016 438				
Antifreeze	99 90 1089	81 22 9 407 454		■		
		1940 656				
		G 011V8BA1	xx			
		1 047 035				
Antifreeze	99 91 9400	G 012 A8FA1	■		■	
		1 222 116				
Antifreeze	90 92 6580	77 11 171 589				
Antifreeze	10 92 4196	000 989 08 25 S2			■	
Brake fluid	10 92 1754	DOT 4	■	■	■	■
Brake fluid	32 92 3930	DOT 4 Plus	■	■	■	■
Hydraulic oil	64 92 4704	9979.A1				
Central hydraulic fluid (synthetic)	99 90 6161	81 22 9 407 758		■		
		G 004 000 M2	■			
		1940 766				
Steering gear oil	10 92 1647	001 989 24 03			■	
Central hydraulic fluid	10 92 1648	001 989 20 03			■	
Central hydraulic fluid (mineral)	99 90 6162	81 22 9 407 549		■		
Steering gear oil (ATF)	10 90 8972	000 989 88 03/2			■	
Hydraulic oil	10 90 2615	000 989 91 03			■	
Automatic transmission fluid	99 90 8971	000 989 92 03			■	
		81 22 9 400 272		■		
Automatic transmission fluid	30 91 4738	G 052 162 A2	■			
		83 22 9 404 328		■		
Automatic transmission fluid	10 91 7546	83 22 9 407 858		■		
		001 989 07 03			■	
		1940 763				■
Automatic transmission fluid	10 92 2806	001 989 21 03			■	
Automatic transmission fluid	10 92 7001	001 989 45 03			■	
Air conditioning compressor-oil	20 91 2239	81 22 9 407 724		■		
		G 052 154 A2	■			
Brake pad paste	30 92 6711	G 000 650	■	■	■	■
Bearing Grease	10 92 1909	001 989 23 51			■	
Circular linkage grease	10 90 2597	001 989 03 51/10			■	
CV joint grease	99 83 0001	G 000 603	■			
		1941 522				
		9004311				
Special grease	10 92 6712	001 989 42 51			■	■
Low viscosity grease	10 90 3514	001 989 08 51				
		81495030015				

Ford	Citroen	Renault	Skoda	Seat	Opel	Volks-wagen	Volvo	Mercedes-Benz Truck	MAN	Volvo Truck
			x	x		x				
					ab 01					
			xx	xx		xx				

5. Every effort has been made to ensure that the information in this catalogue is correct at the time of printing.
6. The products supplied may not match the illustration in this catalogue
7. We supply aftermarket parts of consistent top quality.
8. Manufacturers part numbers must not appear on the invoices sent to vehicle owners.

Central Hydraulic Fluid

SWAG Nr. 99 90 6161

Synthetic (green)

Comp. No. 81 22 9 407 758

SWAG 99 90 6161 Central Hydraulic Oil (synthetic) was developed for use in systems for the central hydraulics/level control/ hydropneumatic suspension, as well as damping and steering in the range of use from -40°C to +130°C.

→ The excellent cold properties (synthetic oil) in conjunction with a superb shear stability also ensure operating reliability in the high-temperature range
→ The outstanding wear protection, measured in the FZGA/8.3/90 damage force level <12, means high resistance to wear for hydraulic pumps and valves
→ SWAG 99 90 6161 meets, for example, the following specifications:

· VW TL 52146
· MAN M 3289
· Opel B 0400070
· Opel 1940 715
· Opel 1940 766
· GM 1193160548

1 liters

Property		Unit	Test Method
Viscosity at 40°C	18,7	mm²/s	DIN 51562
Viscosity at 100°C	6,2	mm²/s	DIN 51562
Viscosity at -40°C	1030	mPas	DIN 51562
Flash point	>150	°C	DIN ISO 2592
Pour point	-54	°C	DIN ISO 3016

Central Hydraulic Fluid

SWAG Nr. 99 90 6162

Mineral-Based (green)

Comp. No. 81 22 9 407 549

SWAG 99 90 6162 Central Hydraulic Oil (mineralbased) was developed for use in systems for the central hydraulics / level control / hydropneumatic suspension, as well as damping and steering in the range of use from -40°C to +100°C.

→ In addition to the extremely good cold viscosity that ensures reliable operation when used in cold countries, SWAG 99 90 6162 Central Hydraulic Oil (mineral-based) is also excellently suited for high temperatures up to approx. +100°C due to its additive base oil composition

1 liters

Property		Unit	Test Method
Viscosity at 40°C	18,4	mm²/s	DIN 51562
Viscosity at 100°C	6,1	mm²/s	DIN 51562
Viscosity at -40°C	1115	mPas	DIN 51562
Flash point	132	°C	DIN ISO 2592
Pour point	-60	°C	DIN ISO 3016

Central Hydraulic Fluid
SWAG Nr. 10 92 1648

Comp. No. 001 989 20 03

SWAG 10 92 1648 is a high-quality central hydraulic fluid that is based on mainly synthetic hydrocarbons. It contains a highly effective combination of active ingredients and is, in particular, characterized by the excellent wearing protection with respect to the components of a central hydraulics and the extremely low friction level.

→ SWAG 10 92 1648 has been released by the Daimler Chrysler AG Sheet 344

1 liters

Property		Unit	Test Method
Viscosity at 40°C	28,8	mm²/s	DIN 51562
Viscosity at 100°C	6,2	mm²/s	DIN 51562
Density at 15°C	0,850	g/cm³	DIN 51757
Shear stability KRL 20 h 5 kn	-10	%	DIN 51350-6
Flash point	200	°C	DIN ISO 2592

Automatic Transmission Fluid
SWAG Nr. 30 91 4738 (yellow)

Comp. No. G 052 162 A2

SWAG 30 91 4738 is an extremely high-quality gear oil for automatic transmissions based on solvent-refined base oils.

→ SWAG 30 91 4738 was developed for use in automatic transmissions, hydraulic steering systems, converters and power transmissions, but also for transmissions for which the ATF Dexron III F is specified
→ SWAG 30 91 4738 is to be used for the following specifications:

· Mercedes Benz 236.11

· ZF TE-ML 11B, 14B

· VOITH G 607

· VOITH G 1363

· VW LT 71141

· VW TL 521 62

1 liters

Property		Unit	Test Method
Viscosity at 40°C	37	mm²/s	DIN 51562-T1
Viscosity at 100°C	7,4	mm²/s	DIN 51562-T1
Density at 15°C	855	kg/m³	DIN EN ISO 12185
Flash point	219	°C	DIN ISO 2592
Pour point	-54	°C	DIN ISO 3016

Automatic Transmission Fluid

SWAG Nr. 10 91 7546

Comp. No. 001 989 07 03

SWAG 10 91 7546 is a high-quality automatic transmission fluid for all automatic transmissions without controlled converter clutch.

→ High thermal capacity
→ Provides a reliable protection against wear, choking, corrosion, and conglutination
→ Extremely good viscosity temperature behaviour
→ Can be easily mixed with all proprietary ATFs
→ Low-foam also under difficult conditions
→ SWAG 10 91 7546 meets and exceeds the following specifications:

· Dexron III, Dexron III-G

· Mercedes Benz
236.1 236.5 236.9

· VW TL 521 62

· ZF TE-ML 11, 14

· Ford Mercon

· Type Allison C-4

1 liters

Property		Unit	Test Method
Viscosity at 40°C	37	mm²/s	DIN 51562-T1
Viscosity at 100°C	7-9	mm²/s	DIN 51562
Density at 15°C	0,855	g/ml	DIN 51757
Flash point	>170	°C	DIN ISO 2592
Pour point	-42	°C	DIN ISO 3016

Automatic Transmission Fluid

SWAG Nr. 10 92 2806

Comp. No. 001 989 21 03

SWAG 10 92 2806 is an universal ATF of the latest generation for all automatic transmissions with and without controlled converter clutch.

→ SWAG 10 92 2806 ensures the maximum wearing protection in each operating condition
→ High thermal capacity
→ Provides a reliable protection against wear, choking, corrosion, and conglutination
→ Extremely good viscosity temperature behaviour
→ Can be easily mixed with all proprietary ATFs
→ Low-foam also under difficult conditions
→ SWAG 10 92 2806 meets and exceeds the following specifications:

- Dexron III-H
- Dexron III, Dexron III-G
- Dexron II-D
- Mercedes Benz 236.1, 236.6, 236.7, 236.9, 236.10
- Ford Mercon and Ford Mercon V
- Type Allison C-4
- ZF TE-ML11, 14
- Toyota II, III, IV

1 liters

Also available in **60-liters** (SWAG Nr. 10 92 6680) and **200-liters** (SWAG Nr. 10 92 6681) containers.

Property		Unit	Test Method
Viscosity at 40°C	31,8	mm²/s	DIN 51562
Viscosity at 100°C	7,1	mm²/s	DIN 51562
Density at 15°C	0,85	g/ml	DIN 51757
Flash point	>170	°C	DIN ISO 2592
Pour point	-48	°C	DIN ISO 3016

Automatic gear oil

SWAG Nr. 10 92 7001 (red)

Comp. No. 001 989 45 03 (ATF 3353)

SWAG 10 92 7001 is a product based on selected base oils designed for use in fully automatic car transmissions. Due to the well balanced proportions of viscosity layer and additive-systems, SWAG 10 92 7001 is characterised by its fuel efficiency potential

→ SWAG 10 92 7001 is used in the new 7 speed Mercedes Benz automatic (NAG 2) as well as in the predecessor gearboxes (NAG 1) 5 speed
→ SWAG 10 92 7001 can also be used in units with the DEXRON III oil specification

→ SWAG 10 92 7001 is approved by:

· Mercedes Benz 236.12

→ and fulfils the requirements of:

· DEXRON III

1 liters

Property		Unit	Test Method
Viscosity at 100°C	6,3	mm²/s	DIN 51562
Density at 15°C	0,848	g/ml	DIN 51757
Flash point	190	°C	DIN ISO 2592
Pour point	-54	°C	DIN ISO 3016

Automatic Transmission Fluid

SWAG Nr. 99 90 8971

Comp. No. 000 989 92 03

1 liters

SWAG 99 90 8971 (ATF) is an extremely high-quality gear oil for automatic transmissions based on solvent refined base oils.

→ SWAG 99 90 8971 was developed for use in automatic transmissions, hydraulic steering systems, converters and power transmissions, but also for transmissions for which the ATF Dexron II D is specified
→ SWAG 99 90 8971 meets, for example, the following specifications:

· GM Dexron II D

· MB 236.2, 236.6, 236.7

· Ford SQM-9010B

· Cat-TO-2

· Ford M2C-138CJ, 166 H, 185 A, CVT

· Allison C3/C4, ZF TE-ML-03, 09, 11, 14

· Voith

· Renk

· Mercon

Property		Unit	Test Method
Viscosity at 40°C	43,2	mm²/s	DIN 51562
Viscosity at 100°C	8,25	mm²/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

Hydraulic Fluid
SWAG Nr. 10 90 2615 (yellow)

Comp. No. 000 989 91 03

SWAG 10 90 2615 Hydraulic Oil on a mineral basis was developed for use in motor vehicle level control and central hydraulic systems.

→ Due to a selected additive combination, SWAG 10 90 2615 ensures excellent protection against oxidation and aging, and is used when hydraulic media with a mineral-oil basis are recommended due to operating conditions

Property		Unit	Test Method
Viscosity at 40°C	17,1	mm²/s	DIN 51562
Viscosity at 100°C	4,5	mm²/s	DIN 51562
Density at 15°C	877	kg/m³	DIN 51757
Flash point	152	°C	DIN ISO 2592
Pour point	-60	°C	DIN ISO 3016

Hydraulic oil LHM-plus

SWAG Nr. 64 92 4704 (green)

Comp. No. Vergl.-Nr. 9979.A1

SWAG 64 92 4704 is a mineral-oil based hydraulic oil with excellent low temperature behaviour, especially for Citroen's hydro-pneumatic springs.

→ SWAG 64 92 4704 is designed for the temperature range -40°C to +100°C and is thus recommended for the latest developments in the automotive hydraulic sector

→ SWAG 64 92 4704 fulfils the following specifications:

· PSA B71 2710
LHM-plus

· ISO 7308
DIN 51621 part 2

Property		Unit	Test Method
Viscosity at 40°C	16-23	mm²/s	DIN 51562
Viscosity at 100°C	6-7,7	mm²/s	DIN 51562
Density at 15°C	0,86	g/ml	DIN 51757
Flash point	>100	°C	DIN ISO 2592
Pour point	<-50	°C	DIN ISO 3116

Steering Gear Fluid

SWAG Nr. 10 90 8972 (yellow)

Comp. No. 000 989 88 03/2

SWAG 10 90 8972 Steering Gear Oil (ATF) is a universal ATF and is recommended when ATF with the following specification is to be used: Type A Suffix A / Type Dexron 2 D.

→ SWAG 10 90 8972 (ATF) Steering Gear Oil (ATF) protects reliably against wear (damage force level FZGA/8.3/90-12), and can therefore also be used in steering gears based on the MB operating specifications, Sheet 236.3

→ SWAG 10 90 8972 fulfils the following specifications:

· 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

Property		Unit	Test Method
Viscosity at 40°C	35,7	mm²/s	DIN 51562
Viscosity at 100°C	7,5	mm²/s	DIN 51562
Density at 15°C	882	kg/m³	DIN 51757
Flash point	200	°C	DIN ISO 2592
Pour point	-45	°C	DIN ISO 3016

Steering Gear Fluid

SWAG Nr. 10 92 1647 (blue)

Comp. No. 001 989 24 03

SWAG 10 92 1647 is a product on fully synthetic basis that meets the requirements of MB 345.0.

→ SWAG 10 92 1647 was optimized with respect to the temperature stability and has been designed for heavily loaded central hydraulics, power-assisted steering and shock absorbers that may achieve permanent oil temperatures of up to 140°C
→ SWAG 10 92 1647 meets and exceeds the following specifications:

· Mercedes Benz 345.0

1 liters

Property		Unit	Test Method
Viscosity at 40°C	18,9	mm²/s	DIN 51562
Viscosity at 100°C	6,3	mm²/s	DIN 51562
Density at 15°C	0,813	kg/m³	DIN 51757
Flash point	200	°C	DIN ISO 2592
Pour point	-45	°C	DIN ISO 3016

DOT 4 Brake Fluid
SWAG Nr. 10 92 1754

SWAG 10 92 1754 is a fully synthetic brake fluid with oxidation and corrosion inhibitors.

→ SWAG 10 92 1754 can be mixed with any fully synthetic brake fluid
→ The currently valid requirements of the following specifications are met and even exceeded in many aspects:

Also available in 0,25-liters (SWAG Nr. 99 90 0001), 1,0-liters (SWAG Nr. 30 92 6461) und 5-liters (SWAG Nr. 10 92 1754) containers.

· 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

Property		Unit	Test Method
Viscosity at -40°C	1500 max		DIN ASTM D 445
Density at 20°C	1,05	g/ml	DIN 51757
Wet boiling point ERBP	165	°C	DIN FMVSS 116
Boiling point ERBP	260	°C	DIN FMVSS 116

DOT 4 Brake Fluid
SWAG Nr. 32 92 3930

SWAG 32 92 3930 is a fully synthetic brake fluid with oxidation and corrosion inhibitors.

→ SWAG 32 92 3930 is a 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
→ SWAG 32 92 3930 can be mixed with any other fully synthetic brake fluid
→ SWAG 32 92 3930 is especially recommended for modern brake systems with anti-lock and stability systems
→ The currently valid requirements of the following specifications are met and even exceeded in many aspects:

Also available in **0,25-liters** (SWAG Nr. 99 90 0004), **1,0-liters** (SWAG Nr. 32 92 3930), **5-liters** (SWAG Nr. 32 92 3932) and **25-liters** (SWAG Nr. 32 92 3934) containers.

- FMVSS 116 DOT 4, DOT 3
- SAE J 1703
- VW TL 766 X/Y
- VW TL 766 X/Y
- Daimler Chrysler DBL 7760 Typ DOT 4 (A 000 989 08 07)
- GM/OPEL GME L5 104
- FORD SAM 6C9103 A
- Jaguar XR83 M6C25 A, MNA 2829 AA
- Porsche brake fluid Super DOT 4
- FIAT
- Renault 41-02-001
- VAG TL 766 X/Y DOT 4

as well as a multiplicity of national and international standards.

Property		Unit	Test Method
Viscosity at -40°C	1500 max		DIN ASTM D 445
Density at 20°C	1,07	g/ml	DIN 51757
Wet boiling point ERBP	>180	°C	DIN FMVSS 116
Boiling point ERBP	>265	°C	DIN FMVSS 116

Air-Conditioner Oill

SWAG Nr. 20 91 2239 (colourless)

Comp. No. 81 22 9 407 724

SWAG 20 91 2239 is an all-synthetic cold machine oil based on polyglycols for motorvehicle air conditioning systems that use R 134a as a refrigerant.

→ With the introduction of R 134a as a replacement refrigerant R 12 in the area of passengercar air conditioning, mainly polyalkylene glycols are used as lubricating oils in the compressors used there. The polyalkylene glycols are not or only conditionally compatible or mixable with lubricants on a mineral-oil, alkylbenzene or ester basis. Particular attention must be paid to this point when filling and/or performing maintenance on the system. Polyglycols can be mixed with R 134a. Due to their polar character, polyglycol oils are very hygroscopic. Particular attention must be paid to this point when handling these special lubricants

250 ml

Property		Unit	Test Method
Viscosity at 40°C	55	mm²/s	DIN 51562-1
Viscosity at 100°C	10	mm²/s	DIN 51562-1
Density at 15°C	989	kg/m³	DIN 51757
Flash point	220	°C	DIN ISO 2592
Pour point	-45	°C	DIN ISO 3016

Antifreeze
ready mixed -25°C
SWAG Nr. 10 92 4196 (blue)

Comp. No. 000 989 08 25 S2

1,5 liters

SWAG 10 92 4196 is a ready-mixed antifreeze with a 40% antifreeze fraction.

→ SWAG 10 92 4196 is ready for use and prevents freezing to –25°C.

→ SWAG 10 92 4196 is a nitrite-free antifreeze and corrosion inhibiting agent

→ SWAG 10 92 4196 is also suitable for use in engines with aluminium cylinder heads

Antifreeze

SWAG Nr. 99 90 2374 (yellow-green)

Comp. No. 000 989 08 25

SWAG 99 90 2374 is a nitrite-free longterm antifreeze with a high level of corrosion protection.

→ SWAG 99 90 2374 was developed for use in modern, liquid-cooled internal-combustion engines
→ SWAG 99 90 2374 already provides the cooling water with sufficient corrosion protection at concentrations of just 20 %.
→ SWAG 99 90 2374 protects against corrosion and cavitation, prevents deposits and foaming
→ SWAG 99 90 2374 complies with MB 325.2 specifications

Also available in **5-liters** (SWAG Nr. 88541), im **60-liters** (SWAG Nr. 99 90 5011) containers.

Property		Unit	Test Method
Density at 20°C	1,115	g/cm³	DIN 51757
Flash point	>100	°C	DIN 51758
Ignition temperature	>400	°C	DIN 51794
Boiling point	>170	°C	ISO 2592
Viscosity 20°C	<25	mm²/s	DIN 51562

Total volume of cooling system Required	Quantity in liters			
	Frost 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

SWAG Nr. 99 90 1089 (blue)

Comp. No. 81 22 9 407 454

SWAG 99 90 1089 is a long-term antifreeze and anti-corrosion agent for all liquid-cooled internal-combustion engines.

→ An addition of 25 % vol. of SWAG 99 90 1089 already protects against corrosion and cavitation, boiler scale, sludge deposits and sludge formation
→ The vehicle manufacturer's specifications must always be observed. Can be used in engines with aluminium cylinder heads and radiators without problems
→ SWAG 99 90 1089 is proven in practice and tested in units with filling specifications:
MAN 324 and MB 325.2

Also available in packing units of **5-liters** (SWAG Nr. 99 92 2268), **20-liters** (SWAG Nr. 99 92 2270) and **60-liters** (SWAG Nr. 99 97 5011)

Property		Unit	Test Method
Density at 20°C	1,13	g/ml	DIN 51757
Flash point	>100	°C	DIN 51758
Ignition temperature	>400	°C	DIN 51794
Boiling point	>170	°C	ISO 2592
Viscosity 20°C	<25	mm²/s	DIN 51562

Total volume of cooling system Required	Quantity in liters			
	Frost 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

SWAG Nr. 99 90 1381 (red)

Comp. No. G 012 A8DA1

SWAG 99 90 1381 is a lifetime antifreeze and anticorrosion agent for gray cast iron and all-aluminum engines, and complies to the requirements of VW, AUDI, SEAT and SKODA with the following properties:

→ SWAG 99 90 1381 offers protection against freezing down to -40°C and provides excellent protection against corrosion and deposits
→ SWAG 99 90 1381 increases the boiling point. This results in uniform heat dissipation
→A share of 33% SWAG 99 90 1381 in the cooling system already offers sufficient corrosion protection and frost protection down to -22°C
→ Complies with MB 325.3/MAN specifications 324, Renault type D/VW TL 774 D

Also available in packing units of (SWAG Nr. 32 92 2272), **20-liters** (SWAG Nr. 32 92 2274) and **60-liters** (SWAG Nr. 30 91 2710)

Property		Unit	Test Method
Density at 20°C	1,116	g/cm³	DIN 51757
Flash point >	>100	°C	DIN 51758
Ignition temperature	>400	°C	DIN 51794
Boiling point	>160	°C	ISO 2592
Viscosity20°C	<15	mm²/s	DIN 51562

Total volume of cooling system Required	Quantity in liters			
	Frost protection			
	to -20°	to -25°C	to -30°C	to -35°C
3l	1,0 l	1,2 l	1,3 l	1,5 l
4l	1,4 l	1,6 l	1,8 l	2,0 l
5l	1,7 l	2,0 l	2,2 l	2,5 l
6l	2,0 l	2,4 l	2,7 l	3,0 l
7l	2,4 l	2,8 l	3,1 l	3,5 l
8l	2,7 l	3,2 l	3,5 l	4,0 l
9l	3,0 l	3,6 l	4,0 l	4,5 l
10l	3,4 l	4,0 l	4,4 l	5,0 l
12l	4,0 l	4,8 l	5,3 l	6,0 l
14l	4,7 l	5,6 l	6,2 l	7,0 l
16l	5,3 l	6,4 l	7,1 l	8,0 l
18l	6,0 l	7,2 l	7,9 l	9,0 l
20l	6,7 l	8,0 l	8,8 l	10,0 i

Antifreeze

SWAG Nr. 99 91 9400 (purple)

Comp. No. G 012 A8F A1

SWAG 99 91 9400 is a silicate-free, longlasting antifreeze agent for use in modern, liquid-cooled engines with a change interval of up to eight years. The outstanding properties of SWAG 19400 mean that it not only fulfils, it actually exceeds the requirements of most manufacturers and international standards.

→ SWAG 99 91 9400 provides excellent engine protection against corrosion and cavitation

→ SWAG 99 91 9400 prevents build-up of deposits and foam

→ SWAG 99 91 9400 is gentle on hoses and seals

→ SWAG 99 91 9400 can be mixed with silicate free brand-name antifreeze agents

→ SWAG 99 91 9400 is equivalent to VW's "G12 plus" antifreeze agent and can be mixed with G11 and G12 antifreeze agents in accordance with VW-TL 774 F, Ford ESEM- 978B4H-A, GM 1825M/1899M

→ SWAG 99 91 9400 fulfils the following specifications:

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

Also available in packing units of: (SWAG Nr. 30 91 9402), **20-liters** (SWAG Nr. 32 92 2276) and **60-liters** (SWAG Nr. 32 92 2278)

Property		Unit	Test Method
Density at 20°C	1,116	g/ml	DIN 51757
Boiling point	>170	°C	ASTM D 1120
Stockpunkt 1:1	-38	°C	ISO 3016
Viscosity at 20°C	<15	mm²/s	DIN 51562

Frost protection to	Antifreeze ratio	Water ratio
-38°C	50	50

Kühlerfrostschutz

Ready Mix -30°C Renault, Typ D

SWAG Nr. 60 92 6580 (green)

Comp. No. 77 11 171 589 S1

→ SWAG 60 92 6580 is ready mixed and must not be further thinned.
→ SWAG 60 92 6580 protects against corrosion and cavitation and prevents deposits and foam formation
→ SWAG 60 92 6580 is produced using Texaco technology and is thus ideally suited to all Renault engines
→ SWAG 60 92 6580 fulfils the following specifications:

· Renault typ D

· SAE J1034

· Ford ESE-M978B4H-A, AF plus

· GM 1825M

· GM 1899M

and others

1,5 liters

Also available in **5-liters** (SWAG Nr. 60 92 6581) and **25-liters** (SWAG Nr. 60 92 6582) containers.

Property		Unit	Test Method
Density at 20°C	1,07	g/ml	DIN 51757
Boiling point	>170	°C	ASTM D 1120
Solidifying point 1:1	-30	°C	ISO 3016
Viscosity at 20°C	<15	mm²/s	DIN 51562

Special grease for injectors and glow plugs

SWAG Nr. 10 92 6712 (white)

Comp. No. 001 989 42 51

SWAG 10 92 6712 is a special paste for preventing corrosion between fuel injectors or glow plugs and the cylinder head.

→ SWAG 10 92 6712 reliably prevents corrosion between fuel injectors and the cylinder head
→ SWAG 10 92 6712 is temperature resistant to 1400°C and as such has been developed for use under the most severe conditions
→ SWAG 10 92 6712 is recommended for all common rail injectors and glow plugs
→ SWAG 10 92 6712 is resistant to most acids and alkalis

Application:
Clean surfaces and apply a thin uniform film of SWAG 10 92 6712. Wipe of excess. Do not use like grease!

Property		Unit	Test Method
Drop point	without	°C	DIN ISO 2176
Density at 15°C	1400	kg/m³	SEB 1813001

Liquid Grease
SWAG Nr. 10 90 3514

Comp. No. 001 989 08 51

SWAG 10 90 3514 is a high-quality, liquid grease resistant to aging with a marked rust protection based on lithium soap, selected base oils and active ingredients.

→ SWAG 10 90 3514 is temperature-stabile, can be pressure-loaded, reduces wear and is waterproof
→ SWAG 10 90 3514 possesses excellent adhesion to metallic surfaces and can be fed well in central lubrication systems for liquid greases even at low temperatures
→ SWAG 10 90 3514 complies with the MB delivery specification 6833.00, the Willy Vogel AG specification for liquid grease and the MAN specification MAN 283 Li-P000
→ The temperatures for use lie between -40°C and +120°C

Property		Unit	Test Method
Drop point	160	°C	DIN ISO 2176
Flow pressure at -35°C	<60	hPa	DIN 51805
Viscosity of base oil at 40°	45	mm²/s	DIN 51562-1
Viscosity of base oil at 40°	6	mm²/s	DIN 51562-1
Coding: KP000 K-40	890		DIN 51502

Ring Joint Grease for CV Universal Joints

SWAG Nr. 10 90 2597

100g

Comp. No. 001 989 03 51/10

Suitable for Mercedes Benz

SWAG 10 90 2597 is a high-grade circular joint grease with outstanding dry-running properties. It contains high shear stability Lithium 12 hydroxyterate soap and MoS2 – a solid lubricant additive -for improving pressure absorption capacity, corrosion protection and bonding strength.

→ SWAG 10 90 2597 is used wherever friction pairings are subjected to high pressures at low surface speeds

→ SWAG 10 90 2597 can, e.g. be used for lubricating joints, articulated shafts, friction bearings, coupling gears and kingpins

Property		Unit	Test Method
Base oil Viscosity at 40°C	125	mm²/s	DIN 51562
Flow pressure at -35°	1200	mbar	DIN ISO 2592
Solid lubricants			
Drop point	>180	°C	DIN ISO 2176
Density	890	kg/m³	CB Stan 0001

High-Temperature Grease for CV Universal Joints

SWAG Nr. 99 90 3630

120g

Comp. No. G 052 133 A3

SWAG 99 90 3630 is a high-performance grease based on heat-resistant base materials. The structure serves to ensure long-life lubrication at low and high temperatures while enabling CV joints to enjoy service-life lubrication.

→ SWAG 99 90 3630 is cold and hotwater resistant and it can be used across a wide range of temperatures
→ SWAG 99 90 3630 can be used in a temperature range of between -35°C up to +150°C (can also be used briefly up to +170°C)

Property		Unit	Test Method
Base oil viscosity at 40°C	150	mm²/s	DIN 51562
Flash point	>200	°C	DIN ISO 2592
Solid lubricants			
Drop point	180	°C	DIN ISO 2176
Density	0,9	g/cm³	CB Stan 0001

High-Temperature Grease for CV Universal Joints

SWAG Nr. 99 83 0001

90g

Comp. No. G 000 603

SWAG 99 83 0001 Universal Shaft Grease is a high-quality lithium-soap grease with MoS 2 as the solid lubricant. It was developed especially for heavily loaded homokinetic joints.

→ SWAG 99 83 0001 Universal Shaft Grease is suitable for lifetime lubricationof both sliding and fixed joints.
→ The universal shaft grease complies with Ford specification SMIC-9004A, Opel specification B 0400265 and VW specification VW TL 738 for the normal temperature range
→ Range of use from -35°C to +130°C

Property		Unit	Test Method
Density	ca. 900	kg/m³	DIN 51757
Flash point	224	°C	DIN ISO 2592
Solid lubricants			
Drop point	180	°C	DIN ISO 2176
Consistency class	2		DIN 51818

High-Temperature Rolling Bearing Grease

SWAG Nr. 10 92 1909 (green)

150g

Comp. No. 002 989 00 51

SWAG 10 92 1909 is an EP universal grease with a broad temperature application range. It consists of a mineral base oil in combination with a high-quality lithium complex soap and a special additive combination.

→ The special EP active ingredients improve the pressure absorption capacity. Thus, a safe lubrication is ensured even under extreme conditions
→ SWAG 10 92 1909 is a lifetime lubrication for thermally heavily loaded rolling bearings with excellent corrosion protection properties
→ Application range: -30°C to +150°C (up to +200°C with continuous regreasing)

Property		Unit	Test Method
Base oil Viscosity at 40°C	170	mm²/S	DIN 51562
Solid lubricants			
Flow pressure at -35°C	<1600	hPa	DIN 51805
Drop point	>250	°C	DIN ISO 2176

Brake pad paste

SWAG Nr. 30 92 6711 (white)

100g

Comp. No. G 000 650

SWAG 30 92 6711 is a white metal-free anti-seize ceramic paste used to prevent noise arising from disc brake pads.

→ SWAG 30 92 6711 is metal free and therefore suitable for all brake callipers made from aluminium or cast iron
→ SWAG 30 92 6711 is resistant to hot and cold water as well as to most acids and alkalis
→ SWAG 30 92 6711 can be used in a temperature range of -30°C to +1.400°C
→ SWAG 30 92 6711 is also highly suitable for insulating and providing corrosion protection for temperature loaded threaded fastenings, bolts, pins, etc.

Eigenscaft		Unit	Test Method
Density at 15°C	1400	kg/m³	SEB 181301
Drop point	ohne	°C	DIN ISO 2176