



Product Application Guide

Materials for Automotive Applications

Application

In recent years, the requirements for temperature and media resistance have continued to increase. Electrification and the restriction of PFAS materials are a challenge which leads to new developments.

Our Added Values

- Material development according to your needs
- All materials are constantly tested
- PFAS free materials available
- FEM simulation of the sealing solution
- Quick prototyping
- Full engineering support
- IATF 16949:2016 certified incl. product development

Product Description

Our product portfolio covers the entire range of transmissions, cooling, powertrains, gas and fuel systems in passenger cars and light/heavy trucks. Our materials are tested according to the OEM'S application specifications.

Co-Moulded Parts

Material Technology:FKM, HNBR, EPDM, AEM, ACM, (F)VMQ + Steel or Resin

Main applications:Oil/Fuel Filtration Systems/Air Duct/Actors/Water Pump/Actuators,EGE

Gaskets, Dampers and Rubber Components

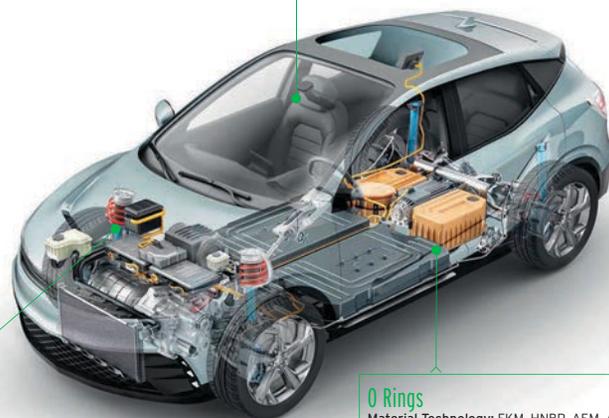
Material Technology: FKM, AEM, ACM, (F)VMQ, HNBR, EPDM

Main applications:Oil/Fuel Filtration Systems, Air Intake, Oil/Water/Vacuum Pumps, Gearboxes, Fuel Cells, Fuel lines

O Rings

Material Technology: FKM, HNBR, AEM, ACM, (F)VMQ, EPDM

Main applications: Injectors, Solenoids, Actuators, Oil/Fuel Filtration, Pumps,Turbocharger, Connectors, Gear Boxes, Fuel Cells, Fuel lines



Sealing Your Success

Disclaimer: In general, the enclosed information, recommendations or advice are given in a good faith. GITIS srl gives no warranty that the same results can be obtained in other laboratories using different condition of preparation and evaluation of the samples. Rev. 01 - 09.04.2024





AUTOMOTIVE TECHNOLOGY GUIDE

ASTM	Hardness Shore A	Colour	Automotive products and applications	GITIS Compound	Cooling Media	R744 Refrigerant	Air Duct/Air Intake	Charge Air/EGR	Engine Oil Applications	Fuel Circuit/Injection	AdBlue	CNG/LPG	Control Units Housing Sealing	Hydrogen Fuel Line	Hydrogen Valve Group	Battery Applications
FKM	70	black	VW 2.8.1 C70+dev; EN 549 E1 H3; WABCO JED 549	VB070ST1			x		x							
FKM	75	black	ASTM D 2000 M2 HK 710 A1-10 B37 B38 EF31 E078, VW 2.8.1 C75+dev; EN 549 E1 H3	VB075ST0					x							
FKM	65	black	VW 2.8.1 A/C+dev; PV3936 (6 Cycles)	VB165ST0					x	x						
FKM	75	black	ASTM D 2000 HK 810 Z1 Z2 Z3 Z4	VB075LT1						x						
HNBR	70	black	R110 annex 5D, 5F, 5G and R67 annex 15 par. 11,13,14, ASTM D 2000-12 D4 706 M5 A26 B16, VW 2.8.1 E70, EN 549 C1 H3; DBL 1364.13	HB070ST2	x				x		x	x	x			
HNBR	70	green	EN 549 B2 H3 (seals); R110 annex 5D, 5F, 5G; R67 annex 15 par. 11,13,14.	HG370ST2	x				x		x	x				
HNBR	70	red	EN 549 C2 H3; R110 annex 5D, 5F, 5G; R67 annex 15 par. 11,13,14.	HR070LT4					x		x	x				
VMQ	30	black	BMW GS 93010 6303	SB030ST5												x
VMQ	70	black	DBL 1364.32; ASTM D 2000: M7 GE 705 B37 EA14 E016 E036 F19 G1+dev.	SR070ST0									x			
FVMQ	60	red	VW 2.8.1 A/C+dev; PV3936 (6 Cycles)	FR060ST2						x						
FVMQ	70	yellow	BMW GS 93010 5519	FY170ST2						x						
FVMQ	70	Blue	MIL-DTL-25988 Class I type II, ASTM D 2000 M2 FK 706 A19 EF31 E036 F19	FL070ST0			x					x				
AEM	60	black	DBL 6038.50+dev; VW TL 52329; BMW GS 93010 5690+dev.	AEB60ST0			x		x							
AEM	70	black	VW 2.8.1 C70+dev	AEB70ST0					x							
ACM	70	black	VW 2.8.1 C70+dev	ACB70S37					x							
EPDM	50	black	VW 2.8.1 G; BMW 93010 6301	EB050ST4	x						x					x
EPDM	60	black	VW 2.8.1 G; TL 52316 B; DBL 6038.14	EB060S16	x						x		x			x
EPDM	60	black	ASTM D 2000 M 2DA 607 A26 Z1 Z2 Z3	EB060S18	x											
EPDM	70	black	ASTM D 2000 M3 DA 710 A26 B36 EA14 F19	EB070ST0									x			
EPDM	70	black	DBL 1364.14	EB070S14	x											
EPDM	70	black	ASTM D 2000 DA 707 A26 B36 Z1 Z2 Z3	EB070S32										x		
EPDM	80	black	ASTM D 2000 810 A26 B36 Z1 Z2 Z3	EB080ST6		x										x
EPDM	90	black	ASTM D 2000 DA 807 A26 B36 G11 Z1	EB090ST1												x
FKM	70	green	PSA B63 0200 (July 2020) FKM4seal	VG370SR5					x							
FKM	70	black	DBL 1364.46; R110 annex 5D, 5F, 5G; R67 annex 15 par. 11,13,14.	VB070LT0	x				x			x				
FKM	70	green	VW 2.8.1 A/T	VG370SR0					x	x						
FKM	70	black	VW 2.8.1 A/T	VB070SR3					x	x						
FKM	75	black	VW 2.8.1 A/T	VB075SR3				x	x	x			x			
FKM	60	black	VW TL 52708-A	VB060SRA				x								
FKM	75	black	VW TL 52708- B+dev	VB075MRC				x								
FKM	70	black	VW 2.8.1 A/C/T; DBL 1364.40; DBL 1364.26	VB070SR1	x				x	x						

GITIS specializes in the development, manufacturing and distribution of high-quality O-rings and seals for all applications with special requirements regarding temperature and media resistance, service life and product quality. Through innovation, technology and high reliability, **GITIS** has become the reliable partner for markets such as automotive, oil and gas, chemical, food and pharma.

With three plants in Italy and China as well as a development office in Germany, we can implement the experience of 40 years together with our customers in strategic growth sectors.

Sealing Your Success

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