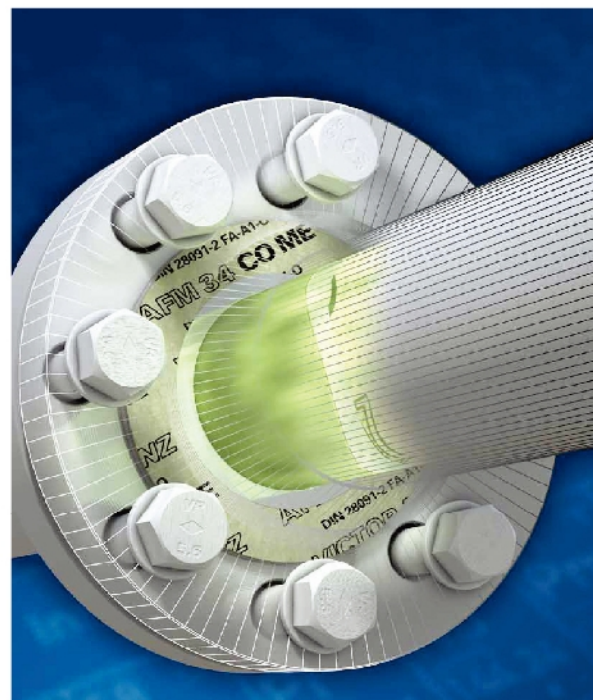




**VICTOR REINZ®**

Sealing Products



Victor Reinz密封垫片材料



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江苏金泰密封科技有限公司

地址：江苏省泰兴市元竹工业园区兴园路

总机：0086-523-87888844 0523-87883998

传真：0086-523-87218667 0523-87888819

网址：[www.txjintai.com](http://www.txjintai.com)


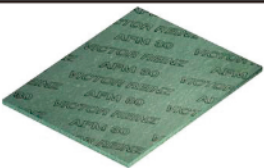




E-mail:13801437849@163.com



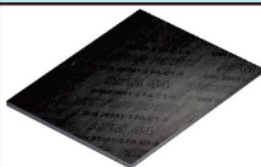





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材料型号	AFM 34	AFM 30	AFM 31	AFM 37	AFM 38	AFM 39
						
主要特点	优异的耐化学性能	广泛的应用范围	高压缩率对液体、气体有非常好的密封性	高质量、高性价比产品	优异的适应性	应用于食品与卫生行业
应用范围	化工厂、机械工程、食品加工行业、船舶、能源、法兰、设备、压力容器、散热器、压缩机、泵、热交换器	机械工程、船舶、建筑、汽车、能源行业 建筑，汽车生产，法兰、泵、压缩机、煤气、换热器，油底壳、变速箱	密封接头、阀门、油底壳、内燃机、压缩机、管道、设备、变速箱、发动机、液压和冷冻油、燃料、水、防冻液、腐蚀性液体的工况	机械工程、船舶、建筑、机械设备、变速箱、化工行业、法兰、压缩机、泵	机械工程、船舶、建筑、机械设备、发动机、法兰、压缩机、泵、油底壳、变速箱	食品与卫生行业、机械工程、建筑、饮用水行业、热水锅炉、浪费、泵、变速箱、压力容器
性能	优异的耐化学性能 非常均匀的纤维结构 高剪切应力 优异的气密性 广泛的使用范围	非常好的柔软性 优异的气密性 优异的机械性能及耐热性 很好的抗电阻性能	高压缩率 良好的密封性 耐油、防冻液、腐蚀性混合液体 垫片表面有不粘、高摩擦涂层，易于清理	适合应用于均匀的热载荷及机械加工性能	非常好的适应性、柔软 在低表面压力时具有优异的气密性 非常适合于低流速的热流体及优秀的机械加工性能	优异的耐化学性能 非常好的适应性、柔软 非常适合于低流速的热流体及优秀的机械加工性能
通过认证	DIN-DVGW, SVGW, ÖVGW FDA KTW WRAS VP 401, HTB, Firesafe BAM Grade X (BS 7531) UVV 61 TA Luft Germanischer Lloyd	DIN-DVGW VP 401 (all stages), HTB BAM Germanischer Lloyd	-	DIN-DVGW Grade Y (BS 7531) Germanischer Lloyd	Germanischer Lloyd	DIN-DVGW, SVGW KTW (incl. W270) Germanischer Lloyd
技术参数（以2mm厚度为例）						
拉伸强度（纵向）	DIN 52910 N/mm²	>12	>9	>6	>6	>5
	ASTM F 152 N/mm²	>18	>12	>8	>8	>7
应力松弛	DIN 52913					
	175℃ N/mm²	36	36	24	32	25
	300℃ N/mm²	25	25	-	22	-
气体泄漏率	DIN 3535-6 mg/(s.m)	0.02	0.05	<0.01	<0.1	<0.01
压缩率	ASTM F 36 J %	5~8	7~15	14~23	7~15	15~20
回弹率	ASTM F 36 J %	>55	>50	>50	>50	>60
耐介质性						
IRM903 油 150℃*5小时	ASTM F 146 %	<7	<10	<10	<10	<10
燃料油B 室温*5小时	ASTM F 146 %	<10	<10	<15	<10	<15
水/防冻液 100℃*5小时	ASTM F 146 %	<10	<5	<5	<5	<5
具体泄漏率	DIN 28091-2 mg/(s.m)	<0.1	<0.1	<0.025	<0.1	<0.1
持续工作温度	- °C	250	250	250	250	220
极限工作温度	- °C	400	400	400	400	300
最大工作压力	- bar	150	100	80	100	50
供货尺寸						
尺寸	- mm	1500*1500 1500*4500	1500*1500 1500*4500	1500*1500 1500*4500	1500*1500 1500*4500	1500*1500 1500*4500
厚度	- mm	0.3~5.0	0.3~5.0	0.3~2.0	0.3~3.0	0.5~3.0
其他	- mm	可根据客户要求制作	可根据客户要求制作	可根据客户要求制作	可根据客户要求制作	可根据客户要求制作



材料型号	AFM 44	Xtreme plus (Mica material)	REINZOFLON E (100%多向膨胀PTFE)	CHEMOTHERM SPE (Graphite material)	AFM 34 IGV	AFM 34 Metall
						
主要特点	碳纤维和丁晴橡胶密封板材，耐高温	耐高温云母板材，极端高温工况使用	完美的耐化学性能	增强石墨板材，高温工况使用	镀锌钢网增强板材，搞机械强度	不锈钢网增强，超高的机械强度
应用范围	石油、化工行业、法兰、机械设备、泵、热交换器、压力容器	内燃机的排气歧管（汽车、船用柴油机、发动机）、涡轮增压器、EGR管垫片、燃烧器的加热装置、燃气涡轮机	化工与制药 食品与饮料工业 过程工业，在强腐蚀介质的玻璃管道法兰	化工厂、炼油厂、发电厂、能源发电机、船舶与机械工程、法兰、泵、压缩机	化工厂、机械工程、造船、法兰、设备、压力容器、散热器、压缩机、泵、换热器	化工厂、机械工程、造船、食品行业、法兰、设备、压力容器、散热器、压缩机、泵、换热器
性能	非常好的耐热性能及抗氧化性能 高机械强度 优异的耐化学性能 柔韧的材质易于处理及加工	耐高温云母增强板材 良好的适应性 低设置的趋势	优异的抗蠕变和冷流性能 非常好的机械性能 良好的适应性	优秀的耐化学性能、耐高温和机械稳定性、良好的气密性	优秀的耐化学性能 均匀的结构 非常高的剪切强度 增强的机械性能 具有非常好的加工性能	优异的耐化学性能 均匀的结构 高气密性 吹山安全
通过认证	Grade X (BS 7531)	Germanischer Lloyd	FDA	DIN-DVGW BAM (O <sub>2</sub> , 200 °C/130 bar and liquid O <sub>2</sub> ) UVV61 Germanischer Lloyd	Germanischer Lloyd	UVV 61 «Gases»
技术参数（以2mm厚度为例）						
拉伸强度（横向）	DIN 52910 N/mm <sup>2</sup>	>10	-	>40	20	>45
	ASTM F 152 N/mm <sup>2</sup>	>15	-	-	-	-
应力松弛	DIN 52913					
	175℃ N/mm <sup>2</sup>	36	38	-	48	35
	300℃ N/mm <sup>2</sup>	25	-	20	-	25
气体泄漏率	DIN 3535-6 mg/(s.m)	0.1	0.5(50MPa)	0.01	0.08	0.25
压缩率	ASTM F 36 J %	6~10	5~15	60	30~45	5
回弹率	ASTM F 36 J %	>60	>40	10	10~20	>60
耐介质性						
IRM903 油 150℃*5小时	ASTM F 146 %	<10	<5	-	<5	<10
燃料油B 室温*5小时	ASTM F 146 %	<10	<5	-	<10	<10
水/防冻液 100℃*5小时	ASTM F 146 %	<7	-	-	-	<5
具体泄漏率	DIN 28091-2 mg/(s.m)	<0.1	-	-	-	<0.2
持续工作温度	- °C	270	950	230	450	250
极限工作温度	- °C	440	950	230	550	400
最大工作压力	- bar	130	-	50	100(450℃)	170
供货尺寸						
尺寸	- mm	1500*1500 1500*4500	宽度500mm的卷材供应	1500*1500	宽度500mm的卷材供应	1500*1500 1500*4500
厚度	- mm	0.5~3.0	1.2/1.6	1.0~4.0	1.0/2.0	0.8~3.0
其他	- mm	可根据客户要求制作	-	可根据客户要求制作	-	可根据客户要求制作

## Medium Tables<sup>1)</sup>

	AFM 34, 34 IGV, 34 Metall	AFM 30	AFM 37	AFM 38	AFM 39	AFM 44	CHEMOTHERM SPE	REINZOFLOX E
Acetaldehyde	●	●	●	●	●	●	●	●
Acetic acid	●	●	●	○	○	●	●	●
Acetic acid anhydride, free of water	●	●	●	●	●	●	●	●
Acetone	●	●	●	○	●	●	●	●
Acetylene	●	●	●	●	●	●	●	●
Alum, aqueous solution	●	●	●	●	●	●	●	●
Aluminium salts <sup>2)</sup> , aqueous solution	●	○	●	●	●	●	●	●
Ammonia	●	●	●	●	●	●	●	●
Ammonium salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Aniline	●	●	○	○	●	●	●	●
Asphalt	●	●	●	●	●	●	●	●
Benzaldehyde	●	●	○	●	●	●	●	●
Benzene	●	●	●	●	●	●	●	●
Bleaching lye, dilute	●	●	●	●	●	○	●	●
Borax, aqueous solution	●	●	●	●	●	●	●	●
Boric acid, aqueous solution	●	●	●	●	●	●	●	●
Butane	●	●	●	●	●	●	●	●
Butanol	●	●	●	●	●	●	●	●
Butylacetate	●	●	●	●	●	●	●	●
Butyric acid	●	●	●	●	●	●	●	●
Calcium salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Carbon disulphide	●	●	○	○	●	●	●	●
Carbon tetrachloride	●	●	●	●	●	●	●	●
Caustic potash solution	●	●	●	▲	▲	●	●	●
Caustic soda lye	●	●	●	▲	▲	●	●	●
Chloroacetic acid	●	●	●	▲	▲	●	●	●
Chlorobenzene	●	●	○	○	●	●	●	●
Chlorodiphenyls	●	●	●	●	●	●	●	●
Chloroform	●	●	●	●	●	●	●	●
Chromic salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Chromic acid	▲	▲	▲	▲	▲	▲	●	●
Citric acid, aqueous solution	●	●	●	●	●	●	●	●

● resistant  
○ partly resistant; testing under operational conditions recommended  
▲ not resistant

	AFM 34, 34 IGV, 34 Metall	AFM 30	AFM 37	AFM 38	AFM 39	AFM 44	CHEMOTHERM SPE	REINZOFLOX E
Cresols	●	○	●	▲	▲	●	●	●
Crude oil	●	●	●	●	●	●	●	●
Cyclohexane	●	●	●	●	●	●	●	●
Cyclohexanol	●	●	●	●	●	●	●	●
Cyclohexanone	●	●	●	●	●	●	●	●
Dibutyl phthalate	●	●	●	●	●	●	●	●
Diesel oil	●	●	●	●	●	●	●	●
Diethyl amine	●	●	●	▲	○	●	●	●
Diethyl ether	●	●	●	●	●	●	●	●
Dimethyl formamide (DMF)	●	●	●	▲	○	●	●	●
Dioxan	●	●	●	●	●	●	●	●
Engine oils 100 °C	●	●	●	●	●	●	●	●
Ethane	●	●	●	●	●	●	●	●
Ethanol	●	●	●	●	●	●	●	●
Ethanolamines	●	●	●	●	●	●	●	●
Ether	●	●	●	●	●	●	●	●
Ethyl acetate	●	●	●	●	●	●	●	●
Ethyl benzene	●	●	●	●	●	●	●	●
Ethylene	●	●	●	●	●	●	●	●
Ethylene glycol	●	●	●	●	●	●	●	●
Fatty acids above C 12	●	●	●	●	●	●	●	●
Ferrous salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Formaldehyde, aq. sol. (Formaline)	●	●	●	●	●	●	●	●
Formic acid	●	●	●	▲	▲	●	●	●
Freons, Frigens (CFC, BrCFC)	●	●	●	●	●	●	●	●
Fuel oil (light or heavy)	●	●	●	●	●	●	●	●
Gasoline	●	●	●	●	●	●	●	●
Gear oil	●	●	●	●	●	●	●	●
Gelatine	●	●	●	●	●	●	●	●
Glycols	●	●	●	●	●	●	●	●

<sup>1)</sup> Detailed resistance data for the materials AFM 34 and CHEMOTHERM SPE can be obtained upon reference of the appropriate order number 39-00025-01 or 39-00131-01. Also see: [www.reinz-industrial.com/datasheet](http://www.reinz-industrial.com/datasheet).

<sup>2)</sup> Salts are: nitrates, nitrites, sulphates, sulphides, chlorides, acetates, tartrates, cyanides, phosphates, oxalates, etc.

	AFM 34, 34 IGV, 34 Metall	AFM 30	AFM 37	AFM 38	AFM 39	AFM 44	CHEMOTHERM SPE	REINZOFLOX E
Heat transfer oils	●	●	●	●	●	●	●	●
Hexane	●	●	●	●	●	●	●	●
Hydraulic oil (Mineral oil based)	●	●	●	●	●	●	●	●
Hydraulic oil (Haps oil based)	●	●	●	○	●	●	●	●
Hydrochloric acid, conc.	○	●	▲	▲	○	○	●	●
Hydrofluoric acid, dilute	●	●	○	○	●	○	●	●
Hydrofluoric acid	▲	▲	▲	▲	▲	▲	●	●
Hydrogen	●	●	●	●	●	●	●	●
Hydrogen peroxide, dilute (3%)	●	●	●	●	●	●	●	●
Hydrogen sulphide	●	●	●	●	●	●	●	●
Isopropanol	●	●	●	●	●	●	●	●
Jet fuel	●	●	●	●	●	●	●	●
Lead salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Lubricating oils	●	●	●	●	●	●	●	●
Machine oils 100 °C	●	●	●	●	●	●	●	●
Magnesium salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Methane	●	●	●	●	●	●	●	●
Methanol	●	●	●	●	●	●	●	●
Methyl chloride	●	○	○	○	○	●	●	●
Methyl ethyl ketone (MEK, Butanone)	●	●	●	●	●	●	●	●
Methylene chloride	●	●	●	●	●	●	●	●
Naphtha	●	●	●	●	●	●	●	●
Natural gas	●	●	●	●	●	●	●	●
Nickel salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Nitric acid, conc.	▲	▲	▲	▲	▲	○	●	●
Nitric acid, dilute	●	●	○	○	●	●	●	●
Nitrobenzenes	●	●	●	▲	○	●	●	●
Oxalic acid, aqueous solution	●	●	●	●	●	●	●	●
Oxygen, gaseous	●	●	▲	▲	▲	●	●	●

### Choice of suitable sealing materials

The Medium Tables are designed to simplify your choice of a suitable sealing material. These recommendations are based on the current status of our knowledge. Also see: [www.reinz-industrial.com/datasheet](http://www.reinz-industrial.com/datasheet).

### Evaluation of chemical resistance

In order to evaluate chemical resistance the sealing materials (if not specified otherwise) were suspended in the medium for 70 hours at room temperature. In the case of dilute acids, alkalis and salts 10 % solutions were used; saturated solutions were used for medium with a low solubility.

	AFM 34, 34 IGV, 34 Metall	AFM 30	AFM 37	AFM 38	AFM 39	AFM 44	CHEMOTHERM SPE	REINZOFLOX E
Perchloroethylene	●	●	●	●	●	●	●	●
Petroleum ether	●	●	●	●	●	●	●	●
Phenol	●	●	●	▲	▲	●	●	●
Phenylether	●	●	●	●	●	●	●	●
Phenylhydrazine	●	●	○	○	●	●	●	●
Phosphoric acid	●	●	●	●	●	●	●	●
Phthalic acid anhydride	●	●	●	●	●	●	●	●
Potassium salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●
Pyridine	●	●	●	▲	○	●	●	●
Refrigerant (R12, R134a, R22, R135a, R404A, R407C, R410A, R507)	●	●	●	●	●	●	●	●
Salicylic acid, aqueous solution	●	●	●	●	●	●	●	●
Sea water	●	●	●	●	●	●	●	●
Styrene	●	●	●	●	●	●	●	●
Sulphuric acid, conc.	○	▲	▲	▲	▲	○	○	●
Sulphuric acid, dilute	●	●	○	○	●	●	●	●
Sulphurous acid	●	●	●	●	●	●	●	●
Toluene	●	●	●	●	●	●	●	●
Transformer oils (mineral oil based)	●	●	●	●	●	●	●	●
Trichloroethylene	●	●	●	●	●	●	●	●
Triethanolamine	●	●	●	●	●	●	●	●
Turpentine	●	●	●	●	●	●	●	●
Vegetable oils and fats	●	●	●	●	●	●	●	●
Water (also deionized)	●	●	●	●	●	●	●	●
Water vapour 130 °C	●	●	○	○	●	●	●	●
Zinc salts <sup>2)</sup> , aqueous solution	●	●	●	●	●	●	●	●

### Please note:

Mixtures or non-aqueous solutions could produce a different result for the chemical resistance evaluation. The thermo-mechanical operating conditions should also be taken into account when selecting a sealing material, as these also influence the resistance of a material to a medium.

For this reason, the recommendations in the Medium Tables are to be considered as a guideline. No warranty can be granted for the use of any material. In case of doubt please consult us and give exact details of the operating conditions.