

Ultra-pure compound for sensitive applications

Material name, short description	VMQ
Material name, based on technical standards	Vinyl methyl silicone elastomer
Material description / intended use	Silicone elastomer with good mechanical properties over a wide temperature range.
Color	translucent
Compound code	VMQ 70.501-01
Crosslinking/curing agent	Peroxide
Manufacturing process	moulded parts

Mechanical properties

Hardness nominal	70 +3/-7 Shore A
Density nominal	1.17 ±0.02 g/cm ³
Tensile strength	10 N/mm ² ASTM D 412
Elongation at break	510 % ASTM D 412
Compression set	23 % ASTM D 395-B 22 h, 175 °C
Tear resistance	26 N/mm ASTM D 624-B

Thermal properties

Operating temperature min.*	-60 °C
Operating temperature max.*	200 °C
TR 10 value	-45 °C ASTM D 1329

* Approximate value, dependent on the application

In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.

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Approvals / Compliance

Drinking water	DVGW W270 for drinking water
	KTW-Guideline cold water 23 °C and hot water up to 85 °C
Food & Beverage	3-A Sanitary Standard N° 18-03 Class I
	FDA CFR 21 - 177.2600 a) - f)
	BfR XV
	D.M. 21/03/1973
	Dlgs. 25.01.1992 n.108 Art.2 (ex. DPR 777/82 art 2) - Complies with Arsenic content limits
	EC 1935/2004 (excl. article 15) and EC Regulation 2023/2006 (GMP)
	French Arrêté 25/11/1992
	KIWA NSF/ANSI 51 formulation
	LFGB§ 30/31
	SR 817.023.21
	GB 4806.11-2016 (Migration test)
	GB 4806.1-2016 (Food law)
	GB 9685-2016 (Positive list)
	Mercosur GMC/RES N° 03/92 (Food law)
Mercosur GMC/RES N° 28/99 (Positive List)	
Mercosur GMC/RES N° 54/97 (Migration test)	
Medical / Pharma	USP class VI Chapter <87> (In Vitro) and Chapter <88> (In Vivo) - 121°C
Oil & Gas	DVGW EN 549 D2/H3
Others	PAH Category 1 (AfPS GS 2019:01)
	ADI free (free of Animal Derived Ingredients) resp. TSE/BSE related substances
	DEHP, free of Phthalates



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