



# SILICONE



## Standard Compounds for Machined Seal

### MVQ Silicone (Vinyl Methyl Silicone Rubber)

Silicone is a rubber (MVQ), which can be used for O-rings, gaskets and special seals. Silicone is an elastomer made from silicon, oxygen, hydrogen, and carbon.

This material is not recommended for dynamic situations due to poor abrasion resistance and high friction characteristics. And due to its poor mechanical properties compared to other rubbers, Silicone is mainly used for static applications. It is highly resistant to weathering, ozone and ageing. Silicone also has a high resistance to dry heat, ultraviolet light and ozone. The compatibility with mineral oils depends on the content of aromatic hydrocarbons in the oil.

Compound	---	S24 S01	S24 S02	S24 S03	---	---
<b>Features</b>	---		FDA compliant to 177.2600, CFR 21	FDA compliant to 177.2600, CFR 21		
<b>Color</b>	---	Blue	Translucent	White		
<b>Hardness</b> ISO 868	Shore A	85A	85A	85		
<b>Minimum Temperature</b>	°F	-76	-76	-76		
<b>Maximum Temperature</b>	°F	392	392	392		
<b>Modulus @ 100%</b> DIN 53504	psi	≥ 580	≥ 580	≥ 725		
<b>Tensile Strength</b> DIN 53504	psi	≥ 1015	≥ 1160	≥ 1015		
<b>Elongation @ Break</b> DIN 53504	%	≥ 120	≥ 250	≥ 100		



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Compound	---	S24 S01	S24 S02	S24 S03	---	---
<b>Tear Strength</b> DIN ISO 34-1	lbf/inch	≥85	≥45	≥90		
<b>Specific Gravity</b> ISO 1183	g/cm <sup>3</sup>	1.58	1.22	1.47		
<b>Rebound Elasticity</b> DIN 53512	%	35	38	52		
<b>Abrasion</b> DIN 53516	mm <sup>2</sup>	---	---	---		
<b>Compression Set</b> ISO 815 24h 158 °F 25% def	%	≤ 8	≤ 14	≤ 10		
<b>Compression Set</b> ISO 815 24h 212 °F 25% def	%	≤ 9	≤ 7	≤ 30		
<b>Compression Set</b> ISO 815 24h 302 °F 25% def	%	---	≤ 20	---		

**TEST DATA ONLY - DO NOT USE FOR SPECIFICATION**

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