VMQ-Silicone O-rings Technical Data Sheet

1. Introduction

Silicone O-rings are made of general purpose silicone with excellent physical and temperature resistance up to 220°C. Standard compound for O-Rings.

2. Product Description

Chemical Composition	:	Silicone Rubber having both Methyl and Vinyl groups on the Polymer Chains
Physical form	:	O-Rings / Mouldings
Colour	:	Red
Odour	:	None
Storage stability *	:	10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	70 ± 5 IRHD
Tensile Strength at break	ISO 37	min 7 MPa
Elongation at break	ISO 37	min 300%
Specific Weight	ISO 2781	1,25
Compression Set	ISO 815	
25% compression - 22h/150°C	ISO 815	
on slab		max 20%
on O-Ring (3,53 mm)		max 40%
Heat Ageing 70h/100°C	ISO 188	
Hardness Change		max +12°

4. Temperature Resistance

- -60° to +220°C
- -60°C TR-10:

5. Chemical Resistance

Air	:	excellent
Alcohol	:	satisfacory
Hydrocarbons	:	unsatisfactory
Fats	:	good
Vegetable oils	:	good
Silicone oils	:	unsatisfactory
Ethers/esters	:	unsatisfactory
Acids	:	good
Steam	:	poor at high temperatures; OK up to 130°C

6. Advantages

- Very good compression set
- Stock for ca 2000 dimensions

7. Other Information

- Other colours on demand.
- Platinum cured USP class VI on demand.