

## VMQ Silicone 714002 - Technical Data Sheet

### 1. Introduction

Platinum cured, translucent silicone rubber having both Methyl and Vinyl substituent groups on the polymer chain. Formulated using only those ingredients authorised by BGV XV and FDA CFR21 Section 177.2600. WRAS tested in accordance with BS 6920. Silicone compound in conformity with USP class VI. The USP study was conducted based upon the references: USP 30, NF25, 2007.<88> Biological Reactivity Tests, in vivo. Extraction conditions 121 ± 2°C for 1 ± 0,1 hour.

### 2. Product Description

Chemical Composition :	Vinyl Methyl Silicone Rubber, Platinum cured
Physical form :	O-Rings / Mouldings
Colour :	Transparent
Storage stability * :	10 years

\* : Following ISO 2230 conditions

### 3. Physical Properties

Test Method	Norm	Test Values
Specific Weight	ASTM D 247	1,16
Hardness	ISO 48 Method M	75 ± 5 IRHD
Tensile Strength at break	ISO 37	6,65 MPa
Elongation at break	ISO 37	480%
Compression Set 24h/175°C, on slab	ISO 815	32,2%
Heat Ageing, 168h/200°C		
Hardness Change	ISO 48	+5° IRHD
Tensile Strength Change	ISO 37	+10%

### 4. Temperature Resistance

- -60° to +200°C

### 5. Chemical Resistance

SIP	: very good
CIP	: bad
Heat Aging	: excellent
Sterilisation	: excellent

### 6. Advantages

- Excellent mechanical, physical and chemical stability over the temperature range of -60° to +200°C.
- Excellent behaviour when sterilised.
- High transparency grade, intended for food contact, pharmaceutical and biomedical applications.
- Certificates on demand.

### 7. Other Information

- This compound is ADI-free (Animal Derived Ingredient Free).

