

## VMQ Silicone 714166 - Technical Data Sheet

### 1. Introduction

Silicone compound 714166 is made of Vinyl Methyl Silicone rubber.  
For applications with cylinder seals.

### 2. Product Description

<i>Chemical Composition</i>	: Methyl Vinyl Silicone Rubber
<i>Physical form</i>	: O-Rings / Mouldings
<i>Colour</i>	: Red
<i>Odour</i>	: None
<i>Storage stability *</i>	: Excellent

\* : Following DIN 7716 conditions

### 3. Physical Properties

<i>Test Method</i>	<i>Norm</i>	<i>Test Values</i>
Hardness	DIN 53519	60° ± 5° IRHD
Tensile Strength at break	DIN 53504	min 7 MPa
Elongation at break	DIN 53504	min 250%
Specific Weight	ASTM D 1817	1,42
<b>Compression Set</b>	DIN 53517	
25% compression - 70h/150°C on slab	ASTM 395 B	max 20%
on O-Ring (3,53 mm)		not applicable
Low Temperature Test TR 10	ASTM D 1329	-40°C

### 4. Other Requirements

<i>Test Method</i>	<i>Norm</i>	<i>Maximum Change in</i>		
		<i>Hardness</i>	<i>Volume</i>	<i>Weight</i>
<b>Heat Ageing</b>	DIN 53508	not applicable	not applicable	not applicable
after 28 days at 200°C				
<b>Immersion in HD oil SAE 30/40</b>	DIN 52521	0° to +15°	not applicable	not applicable
after 28 days at 130°C				
<b>Immersion in water</b>	DIN 52521	not applicable	-5% to +10%	not applicable
after 28 days at 130°C				
<b>Immersion in water</b>		not applicable	0% to +20%	not applicable
plus anti-corrosion oil				

*Additional information:*

slabs: 6,3 mm thick, vulcanised during 20 minutes at 170°C, postcured 4 hours at 200°C.

### 5. Temperature Resistance

- -60° to +220°C continuous

### 6. Chemical Resistance

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

### 7. Advantages

- Special compound for cylinder seals in diesel engines.

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.