

**SILICONE (VMQ) – RED  
70 SHORE HARDNESS  
TECHNICAL DATASHEET**

**CURE SYSTEM: PEROXIDE**

**Temperature Range:** - 60°C to +220°C

**Specification Met:**

ASTM 2000 M7GE705 A19 B37 EA14 EO16 EO36 F19

**PHYSICAL PROPERTIES**

PARAMETERS	UNIT	ASTM TEST METHOD	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness	Shore A	ASTM D 2240	70 ± 5	70
Tensile Strength	Mpa	ASTM D 412	Min 5.0	8.50
Elongation At Break	%	ASTM D 412	Min 175	270
Specific Gravity	g/cm3	ASTM D 297	--	1.22

RESISTANCE TO HEAT -- ASTM D 573 (70 Hrs At 225°C) – A19	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness Change	Max +10	+5
Tensile Strength Change %	Max -25	-10
Elongation Change %	Max -30	-25

COMPRESSION SET – ASTM D395 – B37	REQUIREMENT ASTM D2000	ISG TEST VALUE
Compression Set % 22hrs @ 100°C	Max 30	16

RESISTANCE TO WATER -- ASTM D 471 (70 Hrs At 100°C) – EA14	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness Change	±5	-1
Volume Change %	±5	+4

RESISTANCE TO OIL 101 -- ASTM D 471 (70 Hrs At 150°C) – EO16	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness Change	-15 To +10	-6
Tensile Strength Change %	Max -20	+10
Elongation Change %	Max -20	+8
Volume Change %	0 To 15	+6

<b>RESISTANCE TO OIL 903 -- ASTM D 471 (70 Hrs At 150°C) – E036</b>	<b>REQUIREMENT ASTM D2000</b>	<b>ISG TEST VALUE</b>
Hardness Change	Max -30	-14
Tensile Strength Change %	Max -20	-15
Elongation Change %	Max -20	+6
Volume Change %	+60	+35

<b>LOW TEMP RESISTANCE -- ASTM D 2137 – F19</b>	<b>REQUIREMENT ASTM D2000</b>	<b>ISG TEST VALUE</b>
Non-Brittle After 3Min @ -55°C	--	PASS

**Ref Date: 23 April 2023**