

# Data Sheet: FFKM8717

## MATERIAL: PERFLUOROELASTOMER 90 SHORE

High chemical resistance; Developed for the Oil & gas Industry. Explosive decompression resistant (Norsok M-710 Annex B approved).

**COLOUR:** BLACK

**GENERAL SERVICE TEMPERATURE RANGE:** -10°C to 230°C continuous (260°C Peak)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	90
TENSILE STRENGTH, MPa	ASTM D412	20.1
ELONGATION, %	ASTM D412	118
MODULUS 100%,	ASTM D412	18.4
<b>COMPRESSION SET</b>		
70hrs@ 200°C %	ASTM D395/B	26
<b>LOW TEMPERATURE FLEXIBILITY</b>		
TR-10°C	ASTM D1329	-2
<b>AIR AGEING, 70hrs @ 230°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE, %	ASTM D573	-2
ELONGATION CHANGE, %	ASTM D573	-24
<b>STEAM IMMERSION, 168hrs @ 220°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	-19
ELONGATION CHANGE, %	ASTM D471	-26
VOLUME CHANGE, %	ASTM D471	+9
<b>ETHYLENEDIAMINE IMMERSION, 168hrs @ 100°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-7
TENSILE STRENGTH CHANGE, %	ASTM D471	-40
ELONGATION CHANGE, %	ASTM D471	+9
VOLUME CHANGE, %	ASTM D471	+9
<b>AMMONIUM HYDROXIDE IMMERSION, 336hrs @ 100°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-3
TENSILE STRENGTH CHANGE, %	ASTM D471	-19
ELONGATION CHANGE, %	ASTM D471	-16
VOLUME CHANGE, %	ASTM D471	+3.7

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## FLUID RESISTANCE OVERVIEW

VOLUME CHANGE, %	ACIDS	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ESTERS	<10
VOLUME CHANGE, %	ETHERS	<10
VOLUME CHANGE, %	ALKALIS	<10

*The above test results are based on test slabs / buttons. The results from the actual parts may be different.*

**Issue Date: 10.11.2011**