Data Sheet: FKM90 LT60 AED

MATERIAL: FLUOROCARBON 90 SHORE LOW TEMPERATURE (-60°C) / ANTI-EXPLOSIVE DECOMPRESSION

This compound is suitable for Ultra-low temperature applications. It has good permeability to hydrocarbons (ethane – propane).
NORSOK M-710 AED - APPROVED – 5.33 mm
NACE TM0187 TESTED - SOUR FLUID TEST (5% H2S - 20% H2S)
API6A - SOUR FLUID TEST (10% H2S)
Sour fluid test Arrhenius ISO 23936-2 / Norsok M710-3

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -60°C to +225°C (+250°C for short periods)

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	ASTM D 2240	93
TENSILE STRENGTH, MPa	ASTM D 412	10
ELONGATION, %	ASTM D 412	115
SPECIFIC GRAVITY	ASTM D 1817	1.73
HEAT AGEING 168 hrs @ 200°C		
HARDNESS CHANGE, POINTS	ASTM D 573	+2
TENSILE STRENGTH CHANGE %	ASTM D 573	-23
ELONGATION CHANGE %	ASTM D 573	-20
COMPRESSION SET		
METHOD B/1, 24 hrs @ 200°C %	ASTM D 395	35
FUEL RESISTANCE, FUEL C. 70 hrs @ 23°C		
HARDNESS CHANGE, POINTS	ASTM D 471	-8
TENSILE STRENGTH CHANGE %	ASTM D 471	-25
ELONGATION CHANGE %	ASTM D 471	-20
VOLUME CHANGE %	ASTM D 471	+6.5
HEAT RESISTANCE, METHANOL, 70 hrs @ 23°C		
HARDNESS CHANGE, POINTS	ASTM D 471	-10
VOLUME CHANGE %	ASTM D 471	+12.2
BRITTLE POINT °C	ASTM D 2137-A	-55
TR10 °C	ASTM D 1329	-48
BEND TEST AFTER 4 HOURS @ -55 °C	-	PASS

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

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