

**COMPOUND: F225 Ultra Low Temperature AED (VG)**  
**POLYMER TYPE: Fluorocarbon Rubber FKM90 (+/-5°)**

## Physical Properties

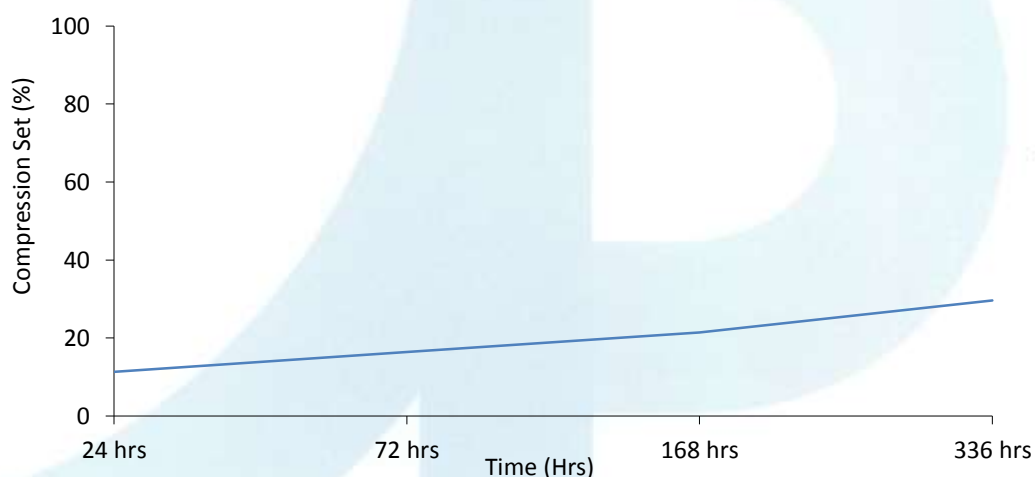
Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	90
TENSILE STRENGTH	ISO 37	MPa	18.51
MODULUS @ 100%	ISO 37	MPa	13.98
ELONGATION @ BREAK	ISO 37	%	127.97
TEAR STRENGTH	ISO 34	N/mm	18.95
SPECIFIC GRAVITY	ISO 2781	g/cm <sup>3</sup>	1.84
LOW TEMPERATURE (TR10)	ISO 2921	°C	-39

## Description

This special ultra low temperature fluorocarbon rubber compound is designed to give the best rapid gas decompression resistance for seals operating in extreme low temperature – high pressure environments. It has excellent physical properties for a compound with such a high hardness and is suitable for sealing against a wide range of oils, fuels and chlorinated solvent. Service Temperature -54°C (-65°F) to 200°C (390°F).

## Compression Set

Typical Compression Set Values in Air @ 175°C Under 25% Strain (ISO 815)



These properties should not be regarded as specifications, but only as typical properties of the material described. It is intended for use by persons having technical skills and understanding of the seal and gasket design. Since the conditions of use are outside our control, nor have we designed the product shape, we can make no warranties, express or implied and assume no liability in connection with any use of this information. Since development and improvement of compounds is a continuing process, Gapi reserves the right to modify their composition and characteristics. Uncontrolled Copy.



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### AIR-AGEING

Property (After 168 Hours @ 175°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	-4
TENSILE CHANGE	ISO 188	%	-7.74
ELONGATION CHANGE	ISO 188	%	-12.65

Property (After 336 Hours @ 175°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+1
TENSILE CHANGE	ISO 188	%	-9.84
ELONGATION CHANGE	ISO 188	%	-22.80

### ABSORPTION TEST

Property (After 168 Hours @ 100°C)	Test Standard	Units	Typical Values
<b>IRM 901 Oil</b>	ISO 1817		
VOLUME CHANGE		%	+0.44
HARDNESS CHANGE		°IRHD	0
<b>IRM 903 Oil</b>	ISO 1817		
VOLUME CHANGE		%	-5.49
HARDNESS CHANGE		°IRHD	0
<b>DISTILLED WATER</b>	ISO 1817		
VOLUME CHANGE		%	+2.61
HARDNESS CHANGE		°IRHD	-3