

FKM 90-compound 514162 - Technical Data Sheet

1. Introduction

The 514162-compound is a nominal 95 durometer FKM recommended for down hole oil patch applications. This compound is designed to have excellent resistance to extrusion and explosive decompression.

2. Product Description

Chemical Composition :	Explosive Decompression Grade B type Fluorocarbon Elastomer
Physical form :	O-Rings
Colour :	Black
Odour :	None
Storage stability * :	Excellent

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Specification	Test Values
Hardness	95 ± 5 Shore A	90
Tensile Strength at break	14.0 min	16,2 MPa
Elongation at break	70 min	94%
Compression Set		
22h/200°C	50 max	13%
168h/200°C	NR	31%
Air Ageing 70h/200°C		
Hardness Change	+/-15	+1°
Tensile Strength Change	+/-30	-10 %
Elongation Change	-50 max	- 28%
ASTM Oil n°1, 70h/150°C		
Volume Change	+/-5	+1%
Hardness Change	+/-5	0
Elongation Change	-40 max	-25%
Tensile Strength Change	-40 max	-15%
IRM 903 Oil, 70h/150°C		
Volume Change	+10 max	+4,5%
Hardness Change	-10 max	-1%
Elongation Change	-40 max	-10%
Tensile Strength Change	-40 max	-12%

4. Temperature Resistance

- -15° to +200°C

5. Advantages

- Excellent resistance to damage caused by explosive decompression in 'down hole' oil field applications.