149001012

CHEMICAL AGGRESSION RESISTANCE

The FFKM ***149001012*** *Compound* products provide unmatched strength characteristics. The chemical aggression resistance series offers the highest level of protection against O-ring degradation due to chemical and physical factors. These compounds resist chemical and solvent attacks, reducing the risk of swelling and cracking in O rings. Additionally, they are compatible with a wide range of fluids.

The FFKM ***149001012*** *Compound* is designed for high-pressure applications in the oil and gas sector. It holds 3 certifications: Norsok M710, API 6A and NACE TM0187.

149001012
FFKM 90 black ED

Rev. 04

GENERAL CHARACTERISTICS

General Applications:	All Chemicals
Colour:	Black
Temperature Range:	From -15°C to +260°C
Curing System:	Peroxide
Compliances:	Norsok M710 – API 6A – NACE TM0187

PHYSICAL AND MECHANICAL PROPRIETIES

Property	Test STD	Unit	Value
Density	DIN EN ISO 1181-1 A	g/cm³	1.95 ± 0.03
Hardness	DIN EN ISO 868	Shore A	90 ± 5
Tensile Strength	DIN 53504 S2	MPa	>14
Elongation	DIN 53504 S2	%	>140

LOW TEMPERATURE RESISTANCE

Property	Test STD	Unit	Value
TR10	ASTM D1329	°C	< -4

COMPRESSION SET TESTS

Parameters	Test STD	Unit	Value
48h @ 200°C	ISO 815-1	%	<21
72h @ 200°C	ISO 815-1	%	< 27

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Key

A1 → *<10% Swelling*
A2 →*<25% Swelling*
A3→ *<35% Swelling*

Notes

Chemical Resistance

Chemical	Rating
Aldehydes	A1
Alcohols	A1
Alkalis	A1
Amines (RT)	A2
Esters	A1
Ethers	A1
Hot Amines	A2
Hydrocarbons	A1
Inorganic Acids	A1
Ketones	A1
Organic Acids	A1
Strong Oxidezers	A1
Sour Gas	A1
Water/Steam	A2

AGEING PROPERTIES

Heat Aging - 70h @ 204°C **Standard:** ISO 188

Properties	Unit	Value
Hardness	Shore A	0.5
Tensile Strength	%	4.0
Elongation	%	-3.2
Volume	%	
Weight	%	

Standard:

Properties	Unit	Value
Hardness	Shore A	
Tensile Strength	%	
Elongation	%	
Volume	%	
Weight	%	

Standard:

Properties	Unit	Value
Hardness	Shore A	
Tensile Strength	%	
Elongation	%	
Volume	%	
Weight	%	

Standard:

Properties	Unit	Value
Hardness	Shore A	
Tensile Strength	%	
Elongation	%	
Volume	%	
Weight	%	

Disclaimer

Tests performed on test slabs. Temperatures, applications, and indications are meant as basic suggestions and valid for static applications with no other specific media and or conditions.

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