Request a Quote

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Marco Compound # V1160

Low Temperature 90 Durometer ED Resistant FKM for the Oil and Gas Industry

Technical Datasheet

General Description:

Our V1160 low temperature and high durometer terpolymer FKM compound has been specifically designed for use in Oil and Gas drilling applications. It has been tested to multiple Oil and Gas standards for Explosive Decompression (ED) resistance and gas immersion. This material is highly versatile and has a wide range of chemical compatibility. V1160 outperforms GFLT base compounds.

Features:

- Excellent low temperature resistance
- Excellent Explosive Decompression (ED) resistance
- Tested to Norsok M-710 standards for Rapid Gas Decompression (RGD) and Sour Gas immersion
- Tested to Total specifications GS PVV 142 03/01
- Tested to NACE TM0297 standard for Explosive Decompression & TM0187 standard for Sour Gas immersion
- Excellent resistance to acids, fuels, mineral oils, greases, aliphatic, aromatic and chlorinated hydrocarbons, non-flammable hydraulic fluids (HFD) and many organic solvents and chemicals.
- Superior resistance to RGD reduces maintenance and increases MTB (mean time between failures)

Applications:

- Low temperature and high pressure environments
- Exploration and drilling equipment
- Subsea Valves and pumps
- Compressors

Service Temperature:

-50° to 437° F

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM	Typical Test Results
Hardness, Shore A	D1415	90
Color		Black
Tensile Strength, MPa (psi)	D412	14.0 (2,020)
Ultimate Elongation, %		130
Compression Set, 22 hrs @392° F @25% deflection, % of original deflection	D395B	19
TR10	D1329	-46° C

Methanol (100%) Immersion (580 hrs @ Room Temperature)	**Volume Swell, %**
24 hrs.	3.0
72 hrs.	3.3
168 hrs.	3.9
360 hrs.	5.8
580 hrs.	6.1