

V91A



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Description

This range of elite materials has been specifically formulated for Explosive Decompression (ED) resistance in downhole, surface and subsea oilfield equipment.

V91A provides the ultimate in low temperature performance, combined with excellent ED resistance.



Key Attributes

- ▶ Excellent Explosive Decompression resistance at temperatures down to -46°C (-51°F).
- ▶ Tested to **Norsok M-710** standard
- ▶ Tested to **Total specification GS PVV 142 03/01**
- ▶ Tested to **NACE** standards: **TM0297** (ED) & **TM0187** (Sour Gas)
- ▶ Improved resistance to methanol, sour gas, hot water, steam and oils as compared with conventional FKM compounds
- ▶ Excellent compression set provides long-term sealing capability and improved leak prevention thus minimizing equipment failure

Typical Applications

Low temperature and high pressure environments
Exploration and drilling equipment
Completion equipment
Subsea valves and pumps
Compressors
O-rings, T-section seals, special profiles and custom-made seals

Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Terpolymer
Colour			Black
Hardness: (°IRHD)	D1415	ISO48	90
Tensile Strength (MPa)	D412	ISO37	14
Elongation at break (%)	D412	ISO37	130
Modulus @ 50% (MPa)			5.1
Modulus @ 100% (MPa)			10.4
Compression Set: 24 hrs @ 200°C (392°F)	D395	ISO815	19%
TR10	D1329		-46°C (-51°F)
Minimum Operating Temperature			-46°C (-51°F)
Maximum Operating Temperature			+225°C (+437°F)

Tested to
NORSOK M-710

Tested to
**TOTAL
GS PVV 142 03/01**

Tested to
**NACE
TM0297 & TM0187**