PRODUCT DATA SHEET

EnDura® V91K

High Performance ED resistant fluoroelastomer for the oilfield industry

Description

Recognising the demanding challenges in the oil and gas exploration and extraction industry, PPE has developed the most technically advanced range of elastomer materials to meet the needs of sealing applications operating in the most severe conditions.

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

EnDura® V91K provides good low temperature performance, combined with excellent ED resistance.

Key Attributes

- Excellent Explosive Decompression resistance
- Tested to **Norsok M-710** standard
- Tested to **NACE** standards: **TM0297**
- Wide temperature range -35°C to 225°C (-31°F to 437°F)
- Excellent lot temperature capability
- Wide resistance to oilfield chemicals
- Good compression set provides long-term sealing capability

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

Other materials in this range

EnDura® V91A (-46°C / -51°F)
EnDura® V91J (-17°C / -1°F)
EnDura® Z95X (HNBR)
EnDura® A90H (TFE/P)

Tested to NORSOK M-710

Tested to NACE TM0297

Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Terpolymer
Colour			Black
Hardness (°IRHD)	D1415	ISO48	90
Tensile Strength(MPa)	D412	ISO37	24
Elongation at break (%)	D412	ISO37	160
Modulus @ 50%(MPa)			10
Modulus @ 100% (MPa)			15
Compression Set: 24 hrs@200°C (392°F)	D395	ISO815	15%
TR10	D1329		-35°C (-31°F)
Minimum Operating Temperature			-35°C (-31°F)
Maximum Operating Temperature			+225°C (+437°F)

***Special Note**: This information is the best of our knowledge accurate and reliable. However, Abbey Seals International Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life. Therefore a regular programme of inspection and replacement is strongly recommended. The material properties above should not be used for specification purposes*

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