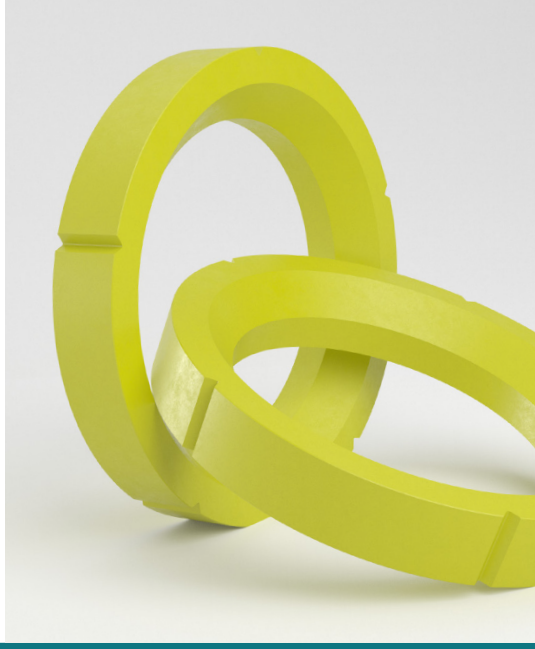
Devlon®
V-API



Devlon® V-API is designed specifically for valve and offshore applications

Devlon® V-API is a proprietary formula developed by James Walker and designed specifically for use in the valve industry.

Prime features

- Exceptional resistance to wear and abrasion
- Excellent life performance in soft valve seat applications
- Low moisture absorption
- Wide temperature and pressure operating range

Application guidelines

Offers a cost-effective solution with superior performance, operating across a wide temperature and pressure range. Devlon V-API is well suited to offshore applications where weight-saving, non-corrosive and impact wear properties are imperative.

For added peace of mind, full traceability is offered through the inclusion of Positive Material Identification (PMI). The material properties are in no way altered or compromised by PMI technology, though its inclusion guarantees that genuine Devlon can be quickly and easily identified.

TEMPERATURE

Maximum Operating Temperature:
+176°C (+349°F)

Minimum Operating Temperature:
-50°C (-58°F)

COLOUR

Yellow

James Walker

Devlon®
V-API

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Typical physical properties

Property	Test method	Units	Value
Tensile strength at yield 23°C	ASTM D638	MPa	79.92
	-	Psi	11,592
Tensile strength at break -40°C	ASTM D638	MPa	109.52
	-	Psi	15,885
Elongation at yield 23°C	ASTM D638	%	5.37
Elongation at break	ASTM D638	%	-
Hardness	-	Shore D	82/85
	ASTM D785	Rockwell	112
Flexural strength	ASTM D790	MPa	121.55
	-	Psi	17,630
Deformation under load 140 Kgf/cm^2 at 23°C for 24 hours	ASTM D621	%	1.0/2.0
Charpy impact strength at 23°C	ASTM D256	J/M	54.8
	-	ftlbs/inch	12.3
Charpy impact strength at -40°C	ASTM D256	J/M	19.8
	-	ftlbs/inch	4.5
Modulus of elasticity	ASTM D638	MPa	4,138
	-	Psi	600,175
Compressive strength	ASTM D695	MPa	140
	-	Psi	20,305
Compressive yield strength	ASTM D695	MPa	91.2
	-	Psi	13,227
Linear thermal expansion coefficient 30 - 100°C	ASTM E831	mm/mm/°C	1.ll x l0^{-4}
Melt point	ASTM D3418	°C	216
Heat distortion temperature °C	ASTM D648	66 Psi	209
Specific gravity	ASTM D792	g/cm^3	1.14
Water absorption 24 hrs	ASTM D570	%	0.105
Water absorption saturation	ASTM D570	%	3

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