

V1238-95

Explosive Decompression And Extrusion Resistant Fluorocarbon Elastomer



Sealing for high pressure, high temperature environments:

Deeper drilling in the Energy, Oil and Gas (EOG) market has continued to increase the demands for high pressure, high temperature sealing materials. Parker's V1238-95 material allows customers to meet and exceed these harsh demands.

V1238-95 is a 95 Shore A durometer fluorocarbon material developed to help protect critical applications from the detrimental effects of explosive decompression (ED) and extrusion typically found in the EOG market. This fluorocarbon material has a unique combination of superior physical and chemical properties, as well as excellent



Features:

- Extrusion resistant
- Explosive decompression (ED) resistant
- True 95 durometer material
- Approved to NORSOK M-710 (refer to ORD 5754 for test data) and rapid gas decompression
- Passed API 6A, appendix F requirements (specification for wellhead and Christmas tree equipment)
- Available in AS568 (AN) and class II dimensions and tolerances



ENGINEERING YOUR SUCCESS.

Mechanics of Explosive Decompression (ED)

Mechanics of Extrusion

Extrusion test conditions
Test samples:
V1238-95 AS568-227 O-rings

Typical physical properties	
Hardness, Shore A	94
Tensile strength, psi	2402
Elongation, %	75
50% Modulus, psi	1632
Compression set (70 hrs @ 392°F)	20.6%
PI Extrusion test, 302°F, 0.0626" gap	
Failure pressure, psi	510
Visual appearance or degradation	Light extrusion

Hardness change, Shore M, pts.	-3
Volume change, %	+3
Weight change, %	+2
Tensile strength change, %	-59
Elongation change, %	-32
50% Modulus change, %	-41
20 Second decay (820 to 0 psig)	Good, low swell
Visual Appearance	No damage