



V9M2

Meeting Your Rapid Gas Decompression Requirements

V9M2 is one of Hi-Tech Seals' low temperature fluorocarbon (FKM) compounds, formulated with Viton™ GLT polymer. It has a long pedigree of delivering a superior sealing performance in some of the most challenging downhole applications.

V9M2 has a general temperature range of -40°C to 200°C (-40°F to 392°F). This compound's extremely low compression set makes it ideal for both temperature and pressure cycling environments. It also has a strong resilience to a broad range of chemicals including hot water and steam.

We believe in safety and are committed to offering high-quality materials that meet the standard set by some of the most respected regulating bodies in the industry. Our V9M2 has been third party tested to ensure it meets rigorous industry standards including:

- NORSOK M-710 (Rev.2) RGD
- API 6A Sour Gas Service
- NACE TM0297 RGD
- TOTAL GS EP PVV 142 RGD



Original Physical Properties	Standards	Values*
Hardness, Shore A	D2240	93
Tensile Strength, psi (MPa)	D412	2849 (19.64)
Elongation, %	D412	143
Modulus @ 100%, psi (MPa)	D412	2012 (13.87)
Specific Gravity, g/cm ³	-	1.83
Compression Set, 70 hrs @ 200°C, %	D395 Method B	10.1
Low Temperature Brittleness Test, 3 min @ -40°C	D2137 Method A	Pass
Low Temperature Retraction Test, (TR-10), °C	D1329	-30.4

*The above information is correct based on our knowledge at the date of its publication. The temperature range listed is a general guideline and final suitability will depend on various application conditions. To ensure this material meets customers' final requirements and safety demands, we recommend customers conduct their own testing.



V9M2 Advantages:

- Enhanced low temperature capabilities
- Low gas permeability
- Outstanding mechanical properties
- Exceptional resistance to petroleum, oil, and gas
- Resistant to a broad range of chemicals, including hot water and steam
- Good resistance in corrosive environments
- Superior performance in pressures and temperature cycling applications

V9M2 is used in critical applications in numerous markets:

- Drilling
- Completions
- Pumps
- Workovers
- Compressors
- Valves

Our V9M2 is ideal for O-rings, loaded U-cups, hammer union seals, and custom moulded products. For more information on V9M2 contact us at engineering@hitechseals.com.

