

O-rings in compound H9T21, supplied by Trelleborg Sealing Solutions

have been tested according to the requirements of

NORSOK M-710 Edition3: 2014 and BS EN ISO 23936-2 [ISO23936-2:2011(E)] (Rapid gas decompression resistance)

PASSED

Test gas: 90/10 mol% CH₄/ CO₂

Test temperature: 100 ±2 °C

Test pressure: 150 bar (15 MPa)

Number of cycles: 8

Decompression rate: 20 bar/minute

Seal Size: 312 (ISO 3601-1/AS 568)

Helen Coates	24 th August 2015
Scientist	Date

Element Hitchin has been assessed to BS EN ISO 9001 by the British Standards Institution (BSI) and is a registered firm under the BSI Quality Assurance scheme for the provision of professional and technical services.



Element Materials Technology

Element Hitchin verify that O-rings in compound **H9T21** supplied by Trelleborg Sealing Solutions have been subjected to a multi-cycle RGD test under the conditions detailed below.

RGD TEST COMMISSIONED BY Trelleborg Sealing Solutions SEAL COMPOUND DETAILS Seal Manufacture Trelleb		
SEAL COMPOUND DETAILS		
Sear Manufacture Treflet	nara Caalina Calutiana	
	Trelleborg Sealing Solutions	
Supplied by Trellet	Trelleborg Sealing Solutions	
Compound name/number/reference 3595		
/1	HNBR	
	B/N 120207529	
Seal type O-ring		
	Not disclosed	
Seal size (ISO3601-1/AS 568) 312		
CSD (nominal) mm	5.33	
Mean CSD (actual, radial) mm	5.39	
RGD TEST CONDITIONS		
Temperature °C	100±2	
Pressure MPa (bar) 15 +1/-0.5 (150 +10/-5)	
No. of cycles	8	
Dwell between cycles hour	1	
Decompression rate (average) MPa/n	nin (bar/minute) 2 (20)	
Gas type mol%	90/10 CH ₄ /CO ₂	
SEAL HOUSING DETAILS CONDITIONS		
Seal compression direction	Radial	
Groove ID mm	25.36	
Groove OD mm	16.00	
Groove width mm	5.66	
Squeeze (average) %	13.0	
Groove fill (area basis) %	86	
Number of seals tested	4	
ISO TEST SEAL RATINGS		
SEAL REPLICATE	RATING PASS/FAIL	
1	0000 Pass	
2	2200 Pass	
3	2000 Pass	
4	2000 Pass	
OVERALL RATING	PASS	
GENERAL		
	lement Materials Technology, Hitchin, U.K.	
Test date	24 th July 2015 to 3 rd August 2015	
Test date Test gas certified and available	YES/NO YES	
Transducer calibration available	YES/NO YES	
P/T log available	YES/NO YES	
171 log available	TEO/INO TEO	
TEST LABORATORY STAMP/SIGNATURE	e lement [™]	
	Element Hitchin, UK	

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