

O-rings in compound J9523, 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 **J9523** supplied by Trelleborg Sealing Solutions have been subjected to a multi-cycle RGD test under the conditions detailed below.

RGD TEST COMMISSIONED BY	ne conditions detailed bei		
Trelleborg Sealing Solutions			
SEAL COMPOUND DETAILS			
Seal Manufacture	Trelleborg Sealing Solutions		
Supplied by	Trelleborg Sealing Solutions		
Compound name/number/reference	J9523		
Elastomer type to ASTM D1418	FFKM		
Lot/Batch No.	B/N 9523008		
Seal type	O-ring		
Manufacturing method	Not disclosed		
Seal size (ISO3601-1/AS 568)	312		
CSD (nominal)	mm 5.33		
Mean CSD (actual, radial)	mm	5.33	
RGD TEST CONDITIONS	111111	3.33	
	°C	100±2	
Temperature	_	15 +1/-0.5 (150 +10/-5)	
Pressure	MPa (bar)		
No. of cycles Dwell between cycles	hour	8	
	MPa/min (bar/minute)	2 (20)	
Decompression rate (average)		2 (20) 90/10 CH ₄ /CO ₂	
Gas type SEAL HOUSING DETAILS CONDITIONS	_{mol} %	90/10 CH ₄ /CO ₂	
	T	D 1: 1	
Seal compression direction	Radial		
Groove ID	mm	25.36	
Groove OD	mm	16.00	
Groove width	mm	5.68	
Squeeze (average)	%	12.10	
Groove fill (area basis)	% 84		
Number of seals tested		4	
ISO TEST SEAL RATINGS			
SEAL REPLICATE	RATING	PASS/FAIL	
1	3200	Pass	
2	2000	Pass	
3	0000	Pass	
4	0000	Pass	
OVERALL RATING		PASS	
GENERAL			
Test laboratory	Element Materials Technology, Hitchin, U.K.		
Test date	24 th July 2015 to 3 rd August 2015		
Test gas certified and available	YES/NO	YES	
Transducer calibration available	YES/NO	YES	
P/T log available	YES/NO	YES	
TEST LABORATORY STAMP/SIGNATURE	(a) element™		
TEOT ENDORATORY STANIF/SIGNATURE	Element Hitchin, UK		

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