

O-rings in compound

HNBR 98 BLACK ED - Z254

supplied by

O-ring one SRL

have been tested according to the requirements of

**NORSOK M-710 Edition 3 and ISO 23936-2
(Rapid gas decompression resistance)**

PASSED

Test gas:	90 / 10 mol% CH ₄ / CO ₂
Test temperature:	100 ±2 °C
Test pressure:	150 bar (15 MPa)
Number of cycles:	8
Decompression rate:	20.1 bar/minute
Seal Size:	312 (ISO 3601-1/AS 568)

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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

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Element Hitchin verify that O-rings in compound **HNBR 98 BLACK ED - Z254** supplied by Industrial Spaces Manufacturing & Trading Co. have been subjected to a multi-cycle RGD test under the conditions detailed below.

RGD TEST COMMISSIONED BY		
O-ring one SRL		
SEAL COMPOUND DETAILS		
Seal Manufacture	O-ring one SRL	
Supplied by	O-ring one SRL	
Compound name/number/reference	HNBR 98 BLACK ED - Z254	
Elastomer type to ASTM D1418	HNBR	
Lot/Batch No.	Not Disclosed	
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	5.28
RGD TEST CONDITIONS		
Temperature	°C	100 ±2
Pressure	MPa (bar)	15 +2/-0 (150 +10/-5)
No. of cycles		8
Dwell between cycles	hour	1
Decompression rate (average)	MPa/min (bar/minute)	2.0 (20)
Gas type	mol%	90/10 CH ₄ /CO ₂
SEAL HOUSING DETAILS CONDITIONS		
Seal compression direction	Radial	
Groove ID	mm	25.42
Groove OD	mm	15.97
Groove width	mm	5.68
Squeeze (average)	%	10.6
Groove fill (area basis)	%	82
Number of seals tested	4	
ISO TEST SEAL RATINGS		
SEAL REPLICATE	RATING	PASS/FAIL
1	3333	Pass
2	3333	Pass
3	3333	Pass
4	3333	Pass
OVERALL RATING	PASS	
GENERAL		
Test laboratory	Element Materials Technology, Hitchin, U.K.	
Test date	12th October 2018 to 19th October 2018	
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	 Element Hitchin, UK	

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