

O-rings in compound

KIFK10 FKM GLT AED -30°C

supplied by

**Industrial Spares Manufacturing & Trading Co.
(ISMAT)**

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)

Keyur Somani

Senior Scientist

19th November 2018

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 **KIFK10 FKM GLT AED -30°C** supplied by Industrial Spares Manufacturing & Trading Co. have been subjected to a multi-cycle RGD test under the conditions detailed below.

RGD TEST COMMISSIONED BY

ISMAT, 66&77 Functional Developed Plots, Perungudi, Chennai-600096, INDIA

SEAL COMPOUND DETAILS

Seal Manufacture	Industrial Spares Manufacturing & Trading Co.	
Supplied by	Industrial Spares Manufacturing & Trading Co.	
Compound name/number/reference	KIFK10 FKM GLT AED -30°C	
Elastomer type to ASTM D1418	FKM	
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	5.37

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	25.44
Groove OD	mm	15.95
Groove width	mm	5.68
Squeeze (average)	%	11.7
Groove fill (area basis)	%	84
Number of seals tested	4	

ISO TEST SEAL RATINGS

SEAL REPLICATE	RATING	PASS/FAIL
1	0000	Pass
2	0000	Pass
3	2000	Pass
4	2000	Pass

OVERALL RATING

PASS

GENERAL

Test laboratory	Element Materials Technology, Hitchin, U.K.	
Test date	30 th August – 7 th September 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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