

## O-rings in compound

**KIFK15 FKM GLT AE1 AED -46°C**

**supplied by**

**Industrial Spares Manufacturing & Trading Company  
(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 <sub>4</sub> / CO <sub>2</sub>
Test temperature:	100 ±2 °C
Test pressure:	150 bar (15 MPa)
Number of cycles:	8
Decompression rate:	19.8 bar/minute
Seal Size:	312 (ISO 3601-1/AS 568)

*Keyur Somani*

Senior Scientist

*19<sup>th</sup> 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 **KIFK 15** supplied by Industrial Spares Manufacturing & Trading Company have been subjected to a multi-cycle RGD test under the conditions detailed below.

<b>RGD TEST COMMISSIONED BY</b>		
ISMAT, 66&77 Functional Developed Plots, Perungudi, Chennai-600096, INDIA		
<b>SEAL COMPOUND DETAILS</b>		
Seal Manufacture	Industrial Spares Manufacturing & Trading Company	
Supplied by	Industrial Spares Manufacturing & Trading Company	
Compound name/number/reference	KIFK 15	
Elastomer type to ASTM D1418	FKM GLT AE1 AED -46°C	
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
<b>RGD TEST CONDITIONS</b>		
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 <sub>4</sub> /CO <sub>2</sub>
<b>SEAL HOUSING DETAILS CONDITIONS</b>		
Seal compression direction	Radial	
Groove ID	mm	25.4
Groove OD	mm	16.0
Groove width	mm	5.65
Squeeze (average)	%	10.4
Groove fill (area basis)	%	82
Number of seals tested	4	
<b>ISO TEST SEAL RATINGS</b>		
SEAL REPLICATE	RATING	PASS/FAIL
1	3000	Pass
2	0000	Pass
3	0000	Pass
4	0000	Pass
<b>OVERALL RATING</b>	PASS	
<b>GENERAL</b>		
Test laboratory	Element Materials Technology, Hitchin, U.K.	
Test date	29 <sup>th</sup> March – 9 <sup>th</sup> April 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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