# **FREUDENBERG**

# OIL & GAS TECHNOLOGIES

## **Certificate of Test**

Freudenberg Oil & Gas Technologies' 13 5/8" x 5,000 psi NBR 162 Ultra annular packing unit was successfully tested with 364 close and open cycles and 52 low/high pressure tests for fatigue design validation in accordance with API 16A, Fourth Edition, section 4.7.3.21 PR1 procedures and acceptance criterion.

#### Product Details: FOGT 13 5/8" x 5,000 psi Ultra Annular Packing Unit NBR 162

Manufacturer:	Freudenberg Oil & 0
Part Number:	10108521-33
Batch Number:	7896-7900
Compound Description:	NBR 162 Elastomer

#### **Test Parameters**

Validation Test Standard:	API 16A Fourth Edition PR1, Fatigue Test			
ВОР Туре:	Annular, 13 5/8'' x 5,000 psi			
BOP Model:	BOP Products Series 800 13-5/8" 5K			
BOP Serial Number:	B263-19/BR-008			
Wellbore Low Pressure, minimum:	16	bar	227	psi
Wellbore High Pressure, minimum:	348	bar	5044	psi
Closing Pressure, maximum:	109	bar	1580	psi
Test Medium:	Water			
Hold Duration:	3 minutes			
FOGT Work Order:	2020 142			

### **Test Details**

Test Performed by Test Location

Internal Test Procedures Test Completion Date Test Results

# Authorized by:

Michael LoGiudice

Michael Logudie

Manager, HOU LAB Facility

Freudenberg Oil & Gas Technologies Materials Development & Product Testing Lab 4535 Brittmoore Rd. Houston, TX 77041 SOP-00125/1, in accordance with API 16A Fourth Edition, PR1 August 16, 2020 No visible leakage during the hold periods

Gas Technologies