



CERTIFICATE OF ACCEPTANCE

This is to certify that Supplier Technical Assessment Record (STAR) level 2 of:

Company:	Leader Gasket of Slovakia. S.R.O., (a division of Leader Global Technologies),	
Manufacturing location:	Psurnovicka 1026, UL 1 maja 01483, 014 01 Bytca, Republic of Slovakia.	
The company has been accepted by Shell Global Solutions based on positive test results of:		
Spiral wound gaskets to ASME B16.20 SPE 85/103 & 85/203, with SS-316 inner ring & windings, CS outer ring and graphite filler (98% purity). Gasket style = SWG LG-13-IR ®. Gasket for tests 1,2,3: PN 25-40 & 108 x 120 x 140 x168 x 4.8 mm. Gasket for test 4: PN 25-40 & 54.8 x 72 x 4.9 mm.		TA-testing dates: 28 February 2005 and 04 July 2007.
At Amtec, Laufen, Germany, these SWG LG-13-IR ® test gaskets passed on 2005 Febr. 28: 1. Type Acceptance compression & recovery tests to spec.T-2.232.686: 07-2002. 2. He-leakage test at ambient temp, P = 50 barg and gasket stress = 73 MPa, resulted in FE-leakage rate = $7.76 \times 10E-7$ Pa*m ³ /s (= FE tightness class C). 3. Visual gasket and test rig inspection did not show any damage. For test details see Amtec test report no.: 301-215-1/-. 4. 2007 July 04 the Hot blow-out test (HOBT) was completed. Ref Amtec test report no.: 301-563-1/- Final testing at Amtec in Lauffen Germany was witnessed by Shell-GSI (Mr. W.van Maaren).		
The 2-STAR rating in the Shell Global Solutions Technically Accepted Manufacturers And Products (TAMAP) database is applicable to:		
MESC Product Group Code:	85AACK	
Product Group Description:	Gaskets, semi-metallic, spiral wound with inner and outer rings and graphite filler. Design to ASME B16.20, SPE 85/103 & SPE 85/203.	
MESC Sub-sub Groups:	MESC 85.41.36.304.1-342.1 & 85.41.36.370.1-392.1(GKSW SS15)	
Shell Fugitive Emission Class:	C _H	
Pressure Class Range:	ASME Classes 150 and 300	
Size Range:	DN 15 (1/2")-150# & DN 100 (4")-300# to DN 600 (24")	
Temperature Range (max):	-200 °C to + 450 °C	
Brand name & Model no.:	JM Clipper / Leader Gasket of Slovakia. S.R.O., SWG LG-13-IR ®	
Reference Drawing:	TP-20.024	
Shell-GSI deal no.: 50978. Technical audit of the manufacturing facility.	Original acceptance:	04 July 2007
Amtec Laboratory, Lauffen-Germany test report number: 301-215.	Current certificate:	21 April 2008
Activity code: 54001260	Certificate expiry:	04 July 2012
Acceptance certificate no: 2008-04-002.	Issued by Shell Global Solutions International B.V. GSNL-GSEMH	

Name:
C.A.W. Glansdorp

Signature: