

CERTIFICATE

No. 30255701E/FH/15.08.13

In accordance with the VDI Guideline 2440 (edition November 2000) the compliance with the tightness criteria of the type of packing set



SPETOPAK® WGR TA2
consisting of a combination of 5 packing rings and 4 metal foils

of the packing manufacturer

C.S.U.T. SPETECH Sp. z o.o.
ul. Szyprów 17, PL-43-382 Bielsko-Biała

was verified in a first-time test under the following test conditions:

predeformation:	70	MPa
prestress:	50	MPa
geometry:	56x40x46	mm
temperature of packing:	240	°C
number of stem cycles:	3,000	
stroke:	40	mm
test pressure (absolute):	40	bar
test medium:	Helium	
period of leakage measurement:	24	h

The leak rate measured with the Helium leak detector at the end of the period of the leakage measurement was

$6.0 \cdot 10^{-5}$ mbar · l/(s · m),

therefore the packing set is in compliance with the tightness criteria of VDI 2440 of **$1.0 \cdot 10^{-4}$ mbar · l/(s · m)** for tests at a temperature lower than 250 °C and can be regarded as a high-grade sealing system for the purposes of TA-Luft.

This certificate is only valid in combination with the test report 3025571/-.

Lauffen, August 15, 2013

amtec Messtechnischer Service GmbH

Dipl. Ing. F. Herkert