



Steam boiler sealing Type II

Article description: Steam boiler sealing Type II

Article forms: Ovale closure sealing

Component labeling: TÜV.D.23-017.d (Certification see page 3)

Colour: Anthracite

Preparations: Without any additionally preparations

Materials: Gasket consisting of expanded graphite (purity of at least 98%)

with perforated stainless steel insert (AISI 316, 0.1 mm) - thoenes SP ^{TRD 401} or expanded graphite seal (min. 98% purity) with stainless steel insert (AISI 316; 0.05 mm) - thoenes SL ^{TRD 401}

Mechanical properties: Thermal properties:

Permissible operating pressure: Permissible operating temperature:

p = 40 bar $T = 250 \text{ }^{\circ}\text{C}$

Permissible cold water test pressure:

p' = 88 bar

Material specifications (manufacturer's instructions):

		Material	
Properties	Method	thoenes SP TRD 401	thoenes SL TRD 401
Compressibility	ASTM F36	35 %	45 %
Resilience	ASTM F36	17 %	13 %
Pressure resistance (16h, 300 °C)	DIN 52913	49 N/ mm ²	49 N/ mm ²
Nitrogen permeability (40 bar), RT	DIN 3535/6	< 0,05 mg/ (s.m.)	< 0,05 mg/ (s.m.)
Ash value	DIN 51903	< 1 %	< 1 %
Chloride content	FSA NMG 202-02	< 50 ppm	< 50 ppm
Fluoride content	FSA NMG 202-02	< 50 ppm	< 50 ppm
Density	DIN 28090-2	1,0 g/m ³	$1,0 \text{ g/ cm}^3$
Modulus of deformation			
 At room temperature: EKSW 		32 %	41 %
• At elevated temperature: εκsw/300°C		1,2 %	1,1 %
Setting value			
 At room temperature: εκκω 		4,5 %	4,5 %
 At elevated temperature: εκκιν/300°C 		4,0 %	4,0 %
Recovery value R	DIN 28090-2	0,086 mm	0,080 mm

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Applications:

Closure systems of steam and hot water boilers in accordance with VdTÜV "Dichtung 100".

Application limits: The above information applies only to feed and boiler water in

accordance with "TECH 1466" as well as steam according to the VdTÜV guideline for feed water, boiler water and steam in steam generators.

Dimensions: Gaskets 2 and 3 mm in thickness and doubled/ laminated to 8 mm.