

APPROVAL CERTIFICATE

This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the DNV GL Approval System.

Certificate No.	11 584 - 14 HH
Company	FMI S.p.A. Via Taranto 10/12 25036 Palazzolo Sull' Oglio, ITALY
Product	Flat gasket material
Type	SICHEM S50
Technical Data / Application	<p>SICHEM S50 is a sheet sealing material containing biaxial oriented PTFE and hollow glass microspheres.</p> <p>Appearance: blue color Thickness: 0,75 up to 3,0 mm Density (ASTM F 1315): 1,4 [g/cm³] Compressibility (DIN 3535-6): more than 32 [%] Recovery (DIN 3535-6): more than 7 [%] Gas Permeability/specific leakage(DIN 3535-6): less than 0,05 [mg s⁻¹ m⁻¹] Creep Relaxation (DIN 3535-6): less than 19 [%] NOTE 1: The specified data are for gaskets of 2 mm thickness. Temperature: max.+260 [°C] min. -200 [°C] Pressure: max. 50 [bar]</p> <p>NOTE 2: The recommended temperatures and pressures applicable for different gasket thicknesses are to be according manufacturer's instructions.</p> <p>RANGE APPLICATION: The gaskets may be used in flanges where only low bolt loading is available under consideration of the mechanical and physical properties as well as the chemical resistance as follows:</p> <ul style="list-style-type: none"> - Ship's piping systems excluding cargo lines on Chemical and Gas Tankers carrying propylene oxide and mixtures of ethylene / propylene oxide. - Not to be used with molten alkali metals, fluorine gas, hydrogen fluoride. - Maximum allowable working pressure and temperature according to the specification of the manufacturer.
Approval Standard	DIN 3535-6, ASTM F1315, SOLAS 74 as amended – Chapter II-1-Reg.3.5.2 – asbestos free compliance.
Documents	Inspection Certificate (EN 10204-3.2) no. 140003 dated 2014-09-12; FMI - Laboratory Test Reports no. 969, 970, 991; Test Report no. 14LA02749 (MADE/HSE) dd. 2014-03-24 (asbestos-free); Initial Survey and Audit Report (GL Genoa) dd. 2014-10-06; Technical Data Sheet (FMI) – Sichem S50 - (Sept. 2014); Declaration of asbestos-free content dd. 2014-06-12; EN ISO 9001:2008 cert. (TÜV Nord) no. 44100110614.
Remarks	The selection of the gaskets for the corresponding application and the correct installation are to be in accordance with the instructions of the manufacturer.
Valid until	2019-10-21
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File No.	XI.B.03
	Hamburg, 2014-10-22