



Confirmation of Type Approval

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 13/APR/2007 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval. The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules. The Product Design Assessment is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below.

This Confirmation of Product Type Approval is valid as of the date shown above for the below listed product.

ABS makes no representations regarding type approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that the Client has full responsibility for continued compliance with the evaluation standard, whether the standard is an ABS Rule or a non-ABS Rule. As specified in the ABS Rules, Unit Certification may be required in addition to Product Type Approval. Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

Garlock Sealing Technologies

Model Name(s): Nitrile/SBR Rubber-Bound Fiber Sheet Gaskets - St-706, 2550, 3000, 3200, G-9900

Presented to:

Garlock Sealing Technologies
1666 Division Street
Palmyra
New York 14522
United States

Intended Service:

MODEL ST-706: Flange Connections for steam, oils, grease and water; MODEL 2550: Flange connections for water, aliphatic hydrocarbons, oils, and gasoline; MODEL 3000: Flange connections for water, aliphatic hydrocarbons, oils, and gasoline; MODEL 3200: Flange connections for water, saturated steam and inert gases; MODEL G-9900: Flange connections for saturated steam, water, inert gases, aliphatic hydrocarbons, oils and gasoline

Description:

MODEL ST-706: Nitrile rubber-bound fiber sheet gasket; MODEL 2550: Nitrile rubber-bound fiber sheet gasket; MODEL 3000: Nitrile rubber-bound fiber sheet gasket; MODEL 3200: SBR rubber-bound fibert sheet gasket (Garlock Blue-Gard, Style 3200); MODEL G-9900: Nitrile rubber-bound fiber sheet gasket

Ratings:

MODEL ST-706 - Temperature (F-max.): 750 with 1000 temporary spikes; Temperature (F-min.): -40; Pressure (psig max.): 1200; PxT Rating (psig F): 700,000 (1/16"), 500,000 (1/8"); MODEL 2550: Temperature (F-max.): 400 with 700 temporary spikes; Temperature (F-min.): -40; Pressure (psig max.): 1000; PxT Rating (psig F): 350,000 (1/16"), 250,000 (1/8"); MODEL 3000: Temperature (F-max.): 400 with 700 temporary spikes; Temperature (F-min.): -40; Pressure (psig max.): 1000; PxT Rating (psig F): 350,000 (1/16"), 250,000 (1/8"); MODEL 3200: Temperature (F-max.): 400 with 700 temporary spikes; Temperature (F-min.): -40; Pressure (psig max.): 1200; PxT Rating (psig F): 350,000 (1/16"), 250,000 (1/8"); MODEL G-9900: Temperature (F-max.): 650 with 1000 temporary spikes; Temperature (F-min.): -40; Pressure (psig max.): 2000; PxT Rating (psig

F): 700,000 (1/16"), 500,000 (1/8")

Service Restrictions: Gaskets which are not specified as "fire safe" are not to be used in fire main, sprinkler, foam and other fire fighting systems of fuel oil tank valves mounted at the fuel tanks and which may be subject to a static head of oil; Gasket Model G-9900: Nitrile rubber-bound fiber sheet gasket is accepted for use where "fire safe" requirements are specified by ABS Rules, and U.S. Coast Guard Regulations.

Comments: None

Notes / Documentation:

Term of Validity: This product/model is covered under Product Design Assessment (PDA) Certificate # 04-HS421875E-PDA, dated 30/Jan/2004. This PDA Certificate expires Jan of 2009. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

ABS Rules: 2004 Steel Vessel Rules 4-6-1/7

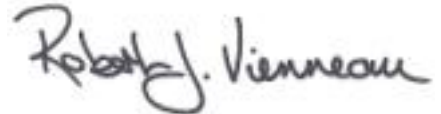
National Standards: ASTM F104-93

International Standards:

Government Authority:

EUMED:

Others:



Manager, ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.