

Page 1 of 2 Certificate No: LR22238211TA Issue Date: 19/01/2022 Expiry Date: 18/01/2027

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Ferolite Jointing	gs Ltd
Address	C-178, Site No.1, B.S.Ro	ad Indl. Area, Ghaziabad, 201001, India
Туре	Flange Gasket	
Description	Non Asbestos Gasket Ma TYPE: Ferolite NAM 37,N	aterials AM 39, NAM 30Y, NA M 45CF & NAM 42GF
Trade Name	Ferolite NAM 37, NAM 39	9, NAM 30Y, NAM 45CF & NAM 42GF
Application	Flanged pipe joints in m	arine piping system
Specified Standard	FeroliteNAM 37 FeroliteNAM 39 FeroliteNAM 30Y FeroliteNAM 45CF FeroliteNAM 42GF	ASTM: 2008 ASTM: 2008 BS 7531: Grade Y ASTM:2008 BS7531: Grade X
Ratings	Please refer to the enclo	osed Appendix
Other Conditions	May not be used in supe	rheated steam, gas and refrigerants lines.
		Vahid Saremi Shahab
ah Street London FC3M 4BS UK	sited	Senior Piping Specialist to Lloyd EMEA

71 Fenchurch Street, London, EC3M 4BS, United Kingdom Senior Piping Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page 2 of 2 Certificate No: LR22238211TA Issue Date: 19/01/2022 Expiry Date: 18/01/2027

Type Approval Certificate

Gasket Materials are to be used in machinery space and flammable fluid systems are to be of fire tested type.

Gasket Materials are to be selected, installed and testedin accordance with the manufacturer's instructions and Lloyd's Register's Rulesand Regulations for the Classification of Ships, Part 5, Chapter 12, Section 8

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 17/00007 (E1)

The Design Appraisal Document 17/00007 (E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



1 of 3 Page Certificate No: Issue Date: Expiry Date:

LR22238211TA 19 Jan 2022 18 Jan 2027

Appendix

RATINGS

Туре	Max. Continuous	Max. Operating	Sheet Thickness
	Temperature	Pressure	
NAM 37	220°C	80 Kg/cm2	0.4 ~ 6.00mm
NAM 39	180°C	50 Kg/cm2	0.40~6.00mm
NAM 30Y	250°C	100 Kg/cm2	0.25~6.00 mm
NAM 45CF	300°C	90 Kg/cm2	0.25~6.00 mm
NAM 42GF	350°C	100 Kg/cm2	0.25~6.00 mm

TECHNICAL DATA

Туре	Ferolite NAM 37
Density	1.7-2.00 (g/cm ³)
Tensile Strength	≥ 8 (N/mm ²) ASTM F 152-Across Grain
Compressibility	5-15% ASTM F36A
Recovery	≥ 50% ASTM F36A

Туре	Ferolite NAM 39
Density	1.7-2.00 (g/cm ³)
Tensile Strength	≥ 7 (N/mm ²) ASTM F 152-Across Grain
Compressibility	5-15% ASTM F36A
Recovery	≥ 40% ASTM F36A

Туре	Ferolite NAM 30Y
Density	1.7-2.00 (g/cm ³)
Compressibility	≥ 6% BS 7531

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page Certificate No: Issue Date: Expiry Date:

2 01 3
LR22238211TA
19 Jan 2022
18 Jan 2027

Stress Relaxation	≥ 22 (N/mm ²) BS 7531	
Tightness -Leak Rate	1.6.10 ⁻⁶ mbar.l(s.m), DIN 28090-1 TA-Luft	

Туре	Ferolite NAM 45CF
Density	1.7-2.00 (g/cm ³)
Tensile Strength	≥ 8 (N/mm ²) ASTM F 152-Across Grain
Compressibility	5-15% ASTM F36A
Recovery	≥ 50% ASTM F36A
Stress Relaxation	≥ 20 (N/mm ²) BS 7531

Туре	Ferolite NAM 42GF
Density	1.7-2.00 (g/cm ³)
Compressibility	≥ 6% BS 7531
Stress Relaxation	≥ 25 (N/mm²) BS 7531
Fire Safe-Leak Rate	0.32 mi/(inch.min) API 6FB- 6"class 300

MATERIAL

Ferolite NAM 37	Aramid fibre, mineral fibre
Ferolite NAM 39	Mineral Fibre , Organic Fibre, Aramid Fibre & High quality Elastomers
Ferolite NAM 30Y	Aramid fibre, mineral fibre , inorganic fillers & High quality Elastomers
Ferolite NAM 45CF	Aramid Fibre, Carbon Fibre & High quality Elastomers
Ferolite NAM 42GF	Aramid Fibre, Mineral fibre, Glass fibre & High quality Elastomers

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page3 of 3Certificate No:LR22238211TAIssue Date:19 Jan 2022Expiry Date:18 Jan 2027

RESTRICTIONS:

May not be used in superheated steam, gas and refrigerants lines.

Gasket Materials are to be used in machinery space and flammable fluid systems are to be of fire tested type.

OTHER CONDITIONS Gasket Materials are to be selected, installed and tested in accordance with the manufacturer's instructions and Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, Section 8.