

Type Approval Certificate

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

This certificate is issued to:

PRODUCER Ferolite Jointings Ltd

PLACE OF PRODUCTION C-178, Site No.1
B.S.Road Industrial Area
Ghaziabad U.P -201001
India

DESCRIPTION Non Asbestos Gasket Materials

TYPE Ferolite NAM 39, NAM 30Y, NAM 45CF & NAM 42GF

APPLICATION Flanged pipe joints in marine piping system

SPECIFIED STANDARDS	Ferolite NAM 39	A STM: 2008
	Ferolite NAM 30Y	BS 7531: Grade Y
	Ferolite NAM 45CF	A STM: 2008
	Ferolite NAM 42GF	BS 7531: Grade X

RATINGS	Type	Max. Continuous Temperature	Max. Operating Pressure	Sheet Thickness
	NAM 39	180°C	50 Kg/ cm ²	0.40~6.00mm
	NAM 30Y	250°C	100 Kg/ cm ²	0.25~6.00 mm
	NAM 45CF	300°C	90 Kg/ cm ²	0.25~6.00 mm
	NAM 42GF	350°C	100 Kg/ cm ²	0.25~6.00 mm

Certificate No. 17/ 00007

Issue Date 20 January 2017

Expiry Date 19 January 2022

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Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



Mohamed Rila
Southampton Office
Lloyd's Register EMEA

LR031.1.2016.06

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Southampton Technical Support Office
Marine & Offshore Lloyd's Register

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TECHNICAL DATA

Type	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

Type	Ferolite NAM 30Y
Density	1.7-2.00 (g/ cm ³)
Compressibility	≥ 6% BS 7531
Stress Relaxation	≥ 22 (N/ mm ²) BS 7531
Tightness–Leak Rate	1.6.10 ⁻⁶ mbar.l(s,m), DIN 28090-1 TA-Luft

Type	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

Type	Ferolite NAM 42GF
Density	1.7-2.00 (g/ cm ³)
Compressibility	≥ 6% BS 7531
Stress Relaxation	≥ 25 (N/ mm ²) BS 7531
Fire Safe-Leak Rate	0.32 mi/ (inch.min) API 6FB- 6" class 300

MATERIAL

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

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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.

"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."

The Design Appraisal Document No. 17/00007 and its supplementary Type Approval Terms and Conditions form part of this Certificate

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