

## 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.

<b>Manufacturer</b>	<b>Ferolite Jointings Ltd</b>	
<b>Address</b>	C-178, Site No.1, B.S.Road Indl. Area, Ghaziabad, 201001, India	
<b>Type</b>	Flange Gasket	
<b>Description</b>	Non Asbestos Gasket Materials TYPE: Ferolite NAM 37, NAM 39, NAM 30Y, NAM 45CF & NAM 42GF	
<b>Trade Name</b>	Ferolite NAM 37, NAM 39, NAM 30Y, NAM 45CF & NAM 42GF	
<b>Application</b>	Flanged pipe joints in marine piping system	
<b>Specified Standard</b>	FeroliteNAM 37	ASTM: 2008
	FeroliteNAM 39	ASTM: 2008
	FeroliteNAM 30Y	BS 7531: Grade Y
	FeroliteNAM 45CF	ASTM:2008
	FeroliteNAM 42GF	BS7531: Grade X
<b>Ratings</b>	Please refer to the enclosed Appendix	
<b>Other Conditions</b>	May not be used in superheated steam, gas and refrigerants lines.	

---

## 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 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.

**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.

## Appendix

### RATINGS

Type	Max. Continuous Temperature	Max. Operating Pressure	Sheet Thickness
NAM 37	220°C	80 Kg/cm <sup>2</sup>	0.4 ~ 6.00mm
NAM 39	180°C	50 Kg/cm <sup>2</sup>	0.40~6.00mm
NAM 30Y	250°C	100 Kg/cm <sup>2</sup>	0.25~6.00 mm
NAM 45CF	300°C	90 Kg/cm <sup>2</sup>	0.25~6.00 mm
NAM 42GF	350°C	100 Kg/cm <sup>2</sup>	0.25~6.00 mm

### TECHNICAL DATA

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

Type	Ferolite NAM 39
Density	1.7-2.00 (g/cm <sup>3</sup> )
Tensile Strength	≥ 7 (N/mm <sup>2</sup> ) 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 <sup>3</sup> )
Compressibility	≥ 6% BS 7531

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

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

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

**MATERIAL**

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

**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.

Downloaded Copy