



**BUREAU
VERITAS**

FIBRE ROPE FOR DEEP WATER MOORING CERTIFICATE OF APPROVAL ATA1103 – 2001- 003

Manufacturer: LANKHORST EURONETE ROPES S.A
Place of manufacture: Povia de Varzim, Portugal
Product: GAMA 98 Polyester Mooring Rope
Reference specification: RSS3-0, and RDS3-0, dated March 2001
Material: High tenacity polyester fibres – 785, Marine finish
Material supplier: INVISTA
Rope construction: rope core: parallel subropes
sub ropes: braided, 8 strands
cover: braided, 32 plaits
Termination: spliced, with thimbles and shackles
Ref. Diameter : 145 mm **Weight :** 15.3 kg/m
Minimum guaranteed breaking strength: 6180 kN

This is to certify that, at the request of *LANKHORST EURONETE ROPES S.A*, the design, the manufacturing process and the testing of prototype ropes of the above referenced item was evaluated, as detailed in the technical report ATA1103-DTO-MF, on the basis of the following documents :

- ◆ PETROBRAS specification ET 3000.00-6651-962-PGT-001 Fev00
« Polyester ropes for mooring line ».
- ◆ Bureau Veritas guidance note NI 432 DTO R00 – 1997 :
« Certification of synthetic fibre ropes for mooring systems »

and found in compliance with the requirements of these documents.

Issued In Paris, October 21st, 2009

For and on behalf of BUREAU VERITAS



Michel FRANÇOIS

Note:

This certificate is a reissue of the certificate ATA1103-2001-001 dated January 3rd, 2002, with updated company names.
This certificate is issued within the scope of the Bureau Veritas Marine Division General Conditions.