



**BUREAU  
VERITAS**

Marine & Offshore  
Division

Certificate number: 145K/RJN/15REV2

www.veristar.com

## CERTIFICATE FOR ROPE (NON METALLIC) AND ACCESSORIES

**Manufacturer** : LANKHORST EURONETE BRASIL IND. E COM. LTDA. (Queimados - RJ - BRA)  
**Requirements** : NR216 - Rules on Materials and Welding for the Classification of Marine Units

**Product description** : BR EUROSTEEL 72mm (9")  
**Design review** : Reference(s) : NOT IN THE SYSTEM  
**Quantity** : 14 coil

**Type** : Fibre Rope  
**Material** : Polypropylene  
**External diameter** : 72mm  
**Number of strands** : 8  
**Minimum breaking load** : 820.31 kN  
**Tensile strength resulting** : 832.20 kN  
**Length per coil** : See attached certificate  
**Gross weight** : See attached certificate  
**Serial numbers** : See attached certificate  
**Scope of inspection** : Visual and dimensional examination  
: Witnessing of linear density measurement  
: Witnessing of breaking load test

**Enclosures / Remarks** : Manufacturer's test report 201500850 filed in the system  
Fabrication: ABNT NBR ISO 1346/2013  
Inspection: ABNT NBR ISO 2307

This certificate is issued by Bureau Veritas as per the above Classification Rules and in compliance with the applicable technical requirements therein.

**Marking** : 145K/RJN/15  
**Last survey** : 13 Oct 2015  
**Surveyor** : Lando Ribeiro

**Issuance date** : 23 Oct 2015  
**Office** : BV RIO DE JANEIRO



This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore Division available on the internet site [www.veristar.com](http://www.veristar.com). Any person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## CERTIFICATE OF ROPES

Number: LEB 462\_/15

**Purchaser Order: 1596**

**Production order: LEB201500850**

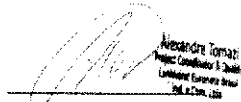
### General informations:

**Purchaser** : EUROSUL FORNECEDORA DE NAVIOS LTDA  
**Client Description** : -  
**Standard** : Fabrication: ABNT NBR ISO 1346/2013 Inspection: ABNT NBR ISO 2307  
**Description** : Eurosteel - Ext. diameter 72mm – (9”) – 8 Strands  
**Material** : Polypropylene  
**Quantity** : 12 Coil  
**Minimum Breaking Load** : 83.62 ton – 820.31 kN  
**Breaking test result** : 84.83 ton – 832.20 kN  
**Scope of Inspection** : Visual and dimensional examination  
: Linear density measurement  
: Breaking Load  
**Chemical Composition** : 25% Polyethylene and 75% Polypropylene

### Coils identification:

Serial number	Strap	Weight (kg)	Length (m)
15100700850EN1	702657	547.00	220
15100700850EN1	702658	554.60	220
15100700850EN1	702681	535.00	220
15100700850EN1	702682	532.00	220
15100700850EN1	702683	567.00	220
15100700850EN1	702684	514.00	220
15100700850EN1	702685	513.00	220
15100700850EN1	702686	512.00	220
15100700850EN1	702687	514.00	220
15100700850EN1	702688	516.00	220
15100700850EN1	702689	511.00	220
15100700850EN1	702690	514.00	220
<b>Total:</b>		<b>6.548,00</b>	<b>2.640</b>

**Issuance date** : October,13<sup>th</sup> 2015.

  
Signature / Stamp - Quality Control

Inspected thoroughly before re-use  
Protect ropes sharp and rough  
surfaces  
Protect from heat  
Do not exceed working load limit  
Do not use damaged ropes