PERLON®
The Filament Company

Atlas®

Perlon® – The Filament Company

Perlon®–The Filament Company– is an innovative, global group of companies specialized in the manufacture of synthetic filaments. Perlon® generates annual sales of more than 150 million euros, employs about 850 people and has a production capacity of 23,000 tons. We operate from locations in Germany, Poland, in the USA and in China.

Through our technical expertise and strength in innovation we develop premium quality products for our customers. The comprehensive product portfolio is based on a variety of raw materials. In line with the intended application, these are modified and processed into high quality, application-specific filaments. The consistent high quality of our products sets worldwide benchmarks.

Atlas® – never has mooring been so easy, flexible and secure

Atlas® ropes consist of six strands manufactured from 100 % Polyamide 6 (PA6). Monofilaments and multifilaments are combined in the individual strands. For this purpose, monofilaments with diameters from 1.6 mm up to 5 mm are wound into ropes with a total diameter ranging from 18 mm up to 96 mm. The monofilaments give the rope excellent dimensional stability and permanent stiffness while the high-strength multifilament yarns assure very good abrasion resistance and high breaking force. An optimum balance between strength and stretch ability ensures high dynamic load resistance in the rope.

Atlas® ropes are compact and do not make excessive demands on winch capacity. They are maintenance free and can be stored wet. Atlas® ropes are designed for automatic winches. Atlas® hawsers are ideal as mooring lines, anchor cable and for other applications in the heavy-duty range. Because of these outstanding features, Atlas® ropes are the first choice for container ships as well as cruise liners.

The advantages at a glance

- Excellent dimensional stability and permanent stiffness
- Very good abrasion resistance and high tensile strength
- Optimum stress-strain characteristics
- Compact, maintenance-free, wet stowable
- Atlas® hawsers are ideal for heavy-duty applications

High performance monofilament for mooring lines

PERLON®
The Filament Company

Technical Specification

Type	Colour	Properties	Diameter	Breaking force	Run length
868Z	white	low elongation, seawater resistant	1.60 mm	129 daN	ca. 430 m/kg
868Z	white	low elongation, seawater resistant	2.00 mm	199 daN	ca. 280 m/kg
868Z	white	low elongation, seawater resistant	3.00 mm	407 daN	ca. 120 m/kg
868Z	white	low elongation, seawater resistant	4.00 mm	616 daN	ca. 69 m/kg
868Z	white	low elongation, seawater resistant	4.75 mm	858 daN	ca. 50 m/kg
868Z	white	low elongation, seawater resistant	5.00 mm	946 daN	ca. 44 m/kg

Elongation at breaking force: 14-24 % depending on type and diameter; daN = kg
The data specified above is approximate based on non-climatised tests.
A deviation of +/-10 % is to be allowed for.

Applications

Container ships	Atlas® ropes
Cruise liners	Atlas® ropes
Ferries	Atlas® ropes

Brand related products: 868Z

This product information has been compiled to the best of our knowledge and with the greatest of care. We cannot, however, assume any liability for the accuracy, integrity or timeliness of its content. The technical parameters and the behaviour of the monofilament can vary depending on diameter and production technique.