



**OLY ROPE ARAMIDE** is a FRP structural reinforcement element compliant with CNR DT 200 R1 / 2013 with a circular section consisting of monodirectional aramid filaments that are put together to form a "strand"; it is widely used in the consolidation of building structures, both new and historical-monumental, for the construction of reinforced nails, chains, intrados reinforcement of vaults, reinforcement of masonry or anchors on masonry.

**OLY ROPE ARAMIDE** compared to traditional steel chains, bars or strands, is not affected by corrosion phenomena and allows you to make holes with a significantly smaller diameter than traditional interventions, reducing damage to the original structures.

## Features

Property OLY ROPE ARAMIDE	Nominal value		
Diameter (mm)	8	10	12
N° of wires (-)	42	53	65
Weight (g/m <sup>2</sup> )	4.500	4.500	4.500
Connector weight 10 ml (Kg)	0,36	0,45	0,54
Specific weight of the yarn (g/cm <sup>3</sup> )	1,44	1,44	1,44
Mechanical tensile strength of the yarn (MPa)	≥2.951	≥2.951	≥2.951
Elastic modulus of the yarn (GPa)	≥99	≥99	≥99
Elongation (%)	2,9	2,9	2,9
Resistant section of the impregnated connector (mm <sup>2</sup> )	26,79	33,49	40,19
Elastic modulus of the impregnated connector (GPa)	107	107	107
Breaking tension of the impregnated connector (N/mm <sup>2</sup> )	1.574	1.574	1.574
Deformation at break of the impregnated connector (%)	1,44	1,44	1,44
Breaking load of the impregnated connector (KN)	41,44	51,81	62,17

## *Storage conditions, use and safety precautions*

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Store in a covered and dry place.

During the preparation and installation of the resins necessary for the application of the fabric, operators must wear waterproof gloves, a mask and goggles;

In case of contact with the eyes, rinse thoroughly with water;

In case of inhalation, breathe clean air;

In case of skin contact, simply rinse with water.

Due to their high adhesion, epoxy resins can damage work tools.

Therefore, it is recommended to wash the tools before hardening the products with solvents, and to use protective suits, in order to preserve the work clothes.

For more information, refer to the technical data sheets of the *OLY RESIN PRIMER (A + B)* and *OLY RESIN 20 (A + B)* epoxy resins.

## *Pack*

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The connectors are available in 10m rolls, with diameter, 8mm, 10mm and 12mm. The impregnation resin is available in 6 kg packs.

The bonding resin is available in 10 kg and 20 kg packs.

## *Installation*

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1. Make the hole for housing the *OLY ROPE ARAMIDE* "strands" using appropriate mechanical equipment.
2. Cut the *OLY ROPE ARAMIDE* "strands" to the length required by the project, taking care to consider the length necessary for the appropriate connection systems, if required.
3. Apply the primer *OLY RESIN PRIMER (A + B)* on the surfaces of the holes subject to the reinforcement after having thoroughly cleaned and dried them following the instructions in the relevant data sheet.
4. Prepare the resin *OLY RESIN 20 (A + B)* following the instructions in the relative technical data sheet and manually impregnate the strand making sure to use protective gloves and all other appropriate safety devices.
5. Insert the *OLY RESIN 20 resin (A + B)* into the hole following the instructions in the relevant technical sheet.
6. Insert the strands inside the holes, paying attention if required by the project, to leave the ends free for the appropriate connection systems.

## Warnings

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The technical and mechanical characteristics and the methods of installation indicated in this sheet are based on an extensive analysis of the state of the art of the research and of the applications in question, but cannot imply any guarantee on our part on the final result of the product. applied in particular with regard to the installation of systems that must be carried out by specialized personnel.

The buyer is responsible for verifying the suitability of the products described in this document for the intended use and purposes. Olympus srl assumes no responsibility for the improper use of the material. The customer is required to verify that this sheet and the data contained therein are valid for the batch of product of his interest and are not outdated as replaced by subsequent editions and / or new product formulations or certifications. The customer is invited to contact our Technical Department in advance for further clarifications. This edition cancels and replaces any previous one.

### Product for professional use

Rev. 001-20

*For information, technical assistance and further systems for structural reinforcement, visit the website:*

**[www.olympus-italia.com](http://www.olympus-italia.com)**

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