

Aquaflex Mooring Rope

8 & 12 Strand PP/Polyester Mooring Ropes

Aquaflex is a blend of 45% Polypropylene and 55% Polyester fibres, specially processed to combine the key features of this commercial marine product.



FEATURES/ BENEFITS

- High performance economical mooring line
- Equivalent wet/dry strength
- High strength to weight ratio
- Excellent abrasion against internal & external friction
- Excellent resistance to frictional heat damage
- TOLL value of 73%. TOLL Is the actual BF of wet rope after 1000 cyclical loadings. This is expressed as a percentage of original wet break strength.
- Excellent shock load absorption, yielding low snapback at break
- Specific gravity 1.1 i.e. neutrally buoyant
- Remains flexible and easy to splice in use
- Certified to standards and supplied with either ABS, APAVE, DNV or MEG4 Certification

APPLICATIONS

- Towing stretchers
- Single point moorings
- Mooring lines
- Mooring jaws
- Slings
- Anchoring
- Fibre rope tails

FIBRE CHARACTERISTICS

Fibre type	Description	Specific gravity	Sensitive to	Resistant to	Heat reaction	Strength and elongation
PP (Polypropylene)	Continuous Filament	0.91	Sodium hypochlorite and some hot organic solvents. Very susceptible to sunlight but with suitable additives, loss of strength is retarded.	Hot and cold acids like alkalis	Shrinks rapidly from flame. Curls and melts at about 165°C.	High tenacity. Good recovery from stretch and elongation at break for film ropes is 25-30%.
Polyester	Continuous Filament	1.38	Alkalis, Phenolic Compounds, Sulfuric Acid.	Most Organic and Mineral Acids, Solvents, Bleaches and Oxidizing Agents.	Softens 228°C, Melts 255°C.	Equivalent wet/ dry strength ratio. Elongation 35% at Break.

RANGE/TECHNICAL

Product Code	Plt Qty	Description	Coil wt/kg	Unspliced Breaking Force kN	Unspliced Breaking Force Kg	Spliced LDBF ton (metric) OCIMF MEG 4	UOM
8 Strand		AQUAFLEX (45 PP/55 PEST) ROPE WITH 1.8M EYE SPLICED EACH END					
RROS40ASQ*	2	Aquaflex Rope 8 Std 40mm x 220m White	193	335	34200	30.78	Coil
RROS48ASQ	1	Aquaflex Rope 8 Std 48mm x 220m White	264	465	47400	42.6	Coil
RROS56ASQ	1	Aquaflex Rope 8 Std 56mm x 220m White	346	620	63200	56.88	Coil
RROS64ASQ	1	Aquaflex Rope 8 Std 64mm x 220m White	454	800	81600	73.44	Coil
RROS72ASQ	1	Aquaflex Rope 8 Std 72mm x 220m White	568	1000	102000	91.8	Coil
RROS80ASQ	1	Aquaflex Rope 8 Std 80mm x 220m White	702	1225	125000	112.5	Coil
12 Strand		AQUAFLEX (45 PP/55 PEST) ROPE WITH 1.8M EYE SPLICED EACH END					
RROS52A12*	1	Aquaflex Rope 12 Std 52mm x 220m White	327	630	64300	57.87	Coil
RROS56A12*	1	Aquaflex Rope 12 Std 56mm x 220m White	371	717	72800	65.52	Coil
RROS64A12*	1	Aquaflex Rope 12 Std 64mm x 220m White	463	886	90400	81.36	Coil
RROS72A12*	1	Aquaflex Rope 12 Std 72mm x 220m White	586	1109	113100	101.79	Coil
RROS80A12*	1	Aquaflex Rope 12 Std 80mm x 220m White	765	1452	148100	133.29	Coil

* All Products are certified to standard with either ABS, DNV, APAVE or MEG4 certificate available on delivery.

** NOTE breaking force is for unspliced rope, spliced rope is less 10% as per ISO 10572

*** NOTE The MBL should never be considered as the safe working load of Rope. For calculating safe working load please refer factor of safety = Breaking force/6 & 9. Specifications subject to ± 5% variation.

**** Products marked * are made to order upon request and subject to a lead time.

Percentage Elongation (Stretch) Of PP/Polyester Rope

