Offshore Industry

L2, L7 & L15 Materials

ACM Bearings Ltd has been supplying highly engineered composite bearings to the Offshore Industry for over 25 years and has successfully supplied many of the major equipment manufacturers.

Due to their excellent mechanical, physical and bearing characteristics ACM materials are ideally suited for the Offshore Industry where reliability, long life, limited maintenance and zero down time are of paramount importance.

In addition to their intrinsic bearing properties the ACM range of materials also have the distinct advantage of resisting marine growth, cathodic chalking and bi-metallic corrosion making them the ideal bearing solution.

The ACM range of materials can operate under dry, grease, sea water or oil lubrication and can be used against many different mating surfaces including hardened steel, stainless steel; chrome plated steel, nitrided surfaces and many other corrosion resistant surfaces. In addition it has been shown that the wear of the ACM range of materials is considerably less than other plastic type materials and with minimal surface damage to the counter face a longer life can be achieved.

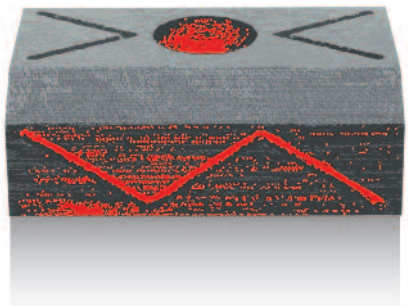
As a world class supplier ACM Bearings Ltd offers a professional service with technical support from their experienced team of plastic technologists/application engineers including, design recommendation, technical proposals and quotation, machining recommendations and bearing installation assistance.

Benefits

- Competitive price
- High load capability
- Excellent shock resistance
- Good elasticity
- Good dimensional stability
- Pollution free operation
- Low creep
- Short delivery time (repair 48 hours)
- Counter face friendly
- Excellent corrosion resistance
- Low swell characteristics
- Low friction
- Low wear rate - long life
- Resistant to marine growth

Applications

- Deck equipment
- Winches
- Stern rollers
- Launch systems
- Tow pins
- Pipe rack support bearings
- Drill rigs & ships
- Cranes
- Landing systems
- Inspection lifts
- Shark jaw bearings
- ROV submersibles



acm COMPOSITES

ACM Bearings Ltd, Derwent Way, Wath Upon Dearne, Rotherham, S63 6EX United Kingdom
Tel +44 (0) 1709 874951 Fax +44 (0) 1709 878818 sales@acmbearings.co.uk www.acmbearings.co.uk

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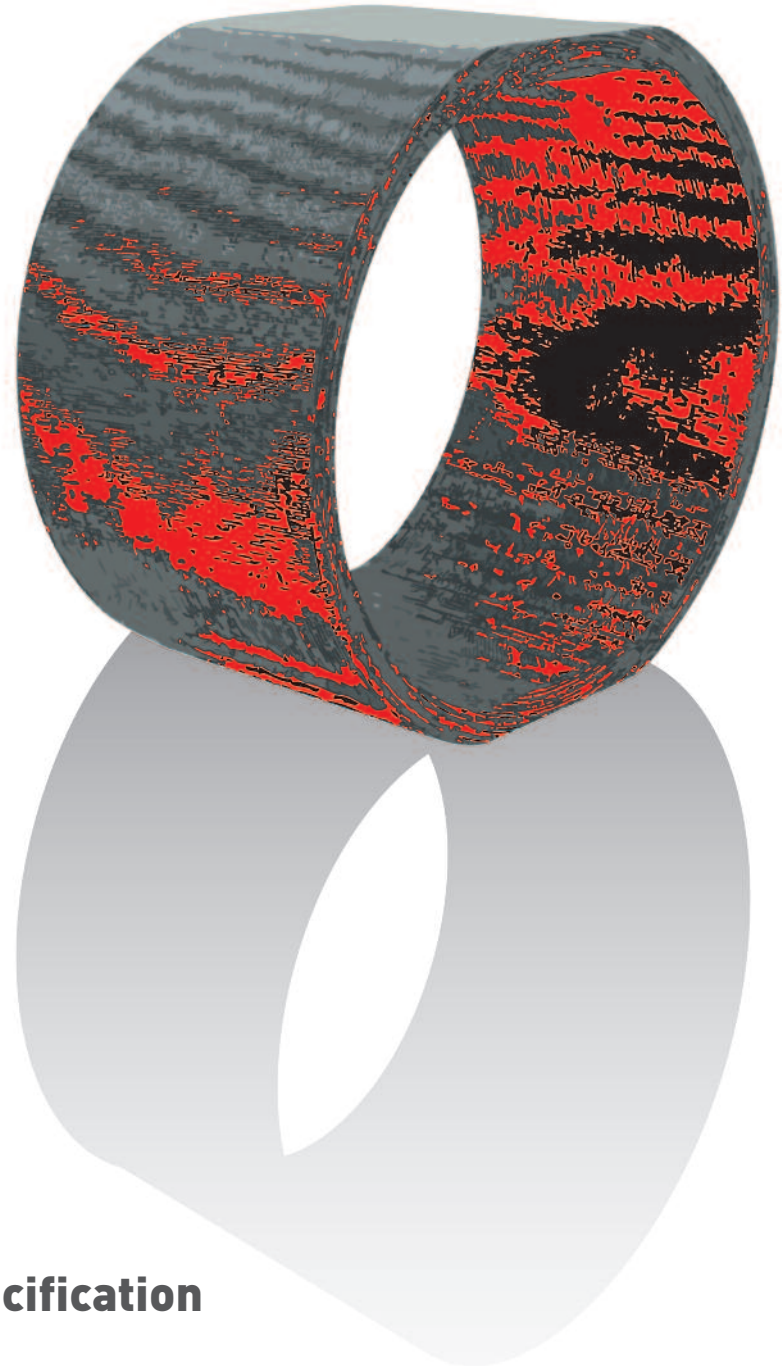

Material / Design Specification

Property	Value	Property	Value
Compressive Strength (radial)	> 330 N/mm^2	Maximum Operating Temperature	120 – 130 °C
Coefficient of Friction (dry)	0.07 – 0.15	Thermal Expansion	5 – 6 x 10^{-5} /°C
Coefficient of Friction (wet)	0.15 – 0.18	Impact Strength	100 kJ/m^2
Swell in water (ambient)	< 0.15 %	Shear Strength	100 – 137 N/mm^2

(Above values are typical for the range of materials)

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