

Stern Shaft Stave Bearings

L2 Marine, L15 and LNF

ACM stave bearings offer a superior performance envelope coupled with a competitive price and short delivery time when compared to other currently available stave bearing materials. Consequently our stave bearings are now being specified for use on commercial vessels and navies worldwide.

ACM stave bearings are manufactured from highly engineered composite materials especially formulated to provide both slow and high speed, high load operation offering longer bearing and shaft life.

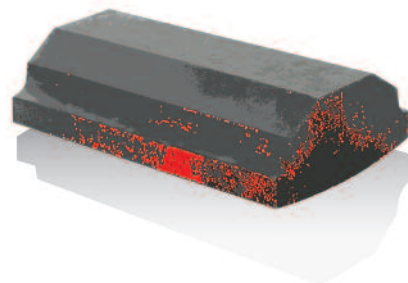
The unique formulation of our stave bearing materials coupled with their low friction provides an inherent vibration damping characteristic resulting in a low/nil noise signature. Each grade of material is also non polluting and hence environmentally friendly.

ACM Stave Bearings are precision machined ready to be fitted together in the housing to form a complete bearing which is then finish machined in the bore to give the optimum running clearance. They can be designed, manufactured and supplied for new build or spares replacing rubber, lignum vitae, cotton, UHMW polyethylene and other plastic type materials.

For stave design, fitting information and running clearance or any other information please contact our marine design team.

Advantages in using ACM materials

- ▲ Competitive price
- ▲ Short delivery time
- ▲ High strength characteristics
- ▲ Low friction and wear characteristics
- ▲ Can operate under dry running
- ▲ Excellent dimensional stability
- ▲ Low 'stick slip'
- ▲ Low/nil noise signature
- ▲ Runs hydro dynamically at low rpm
- ▲ Low swell
- ▲ Low shaft wear
- ▲ Low creep resistance



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	Unit	L2 Marine	L15	LNF
Compressive Strength (flatwise)	N/mm ²	> 330	> 330	180
Compressive Modulus	N/mm ²	2750	2750	4000
Impact Strength (flatwise)	N/mm ²	100	100	35
Density	g/cc	1.30	1.30	1.35
Hardness (Rockwell M)		100	100	90
Coefficient of Friction (Dry)		0.15	0.07	0.18
Maximum Operating Temperature	°C	130	130	100
Thermal Expansion Coefficient	x 10 ⁻⁵ /°C	6	6	5
Swell in Water (ambient)	%	< 0.15	< 0.15	1.0

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