

L2 Marine

Water Lubricated Propeller Shaft Bearings

L2 Marine material exclusively available from ACM Bearings Ltd has been specifically developed for the requirements of brown water lubricated propeller stern shaft bearing applications in river boats and work boats; offering a maintenance free...

'Fit and Forget Bearing Solution'

L2 Marine has been tested for stern tube bearing applications and has been proven to offer superior performance in terms of wear, extended life and low shaft wear over other water lubricated propeller shaft bearing materials.

The material is available as finish machined bearings or in billet form for final machining in the ship yard.



The excellent bearing performance of L2 Marine coupled with its superior physical characteristics offers shipyards and ship owners operating in harsh conditions many advantages.

Advantages in using L2 Marine for propeller shafts

- ▲ High load capability
- ▲ Approved for wet and dry operation
- ▲ Very low stick - slip
- ▲ Short delivery time (repair 48 hours)
- ▲ Good elasticity
- ▲ Dry, oil, grease, water operation
- ▲ Can be freeze fitted
- ▲ Classification approval (10 N/mm²)
- ▲ Very low swell
- ▲ Low wear characteristics - long life
- ▲ Maintenance free
- ▲ Good dimensional stability
- ▲ Competitive price
- ▲ Environmentally friendly

acm COMPOSITES

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Material / Design Specification

Property	Value	Property	Value
Compressive Strength (flatwise)	> 330 N/mm ²	Hardness (Rockwell M)	100
Compressive Strength (edgewise)	> 150 N/mm ²	Coefficient of Friction (dry)	0.15
Compressive Modulus (flatwise)	2750 N/mm ²	Maximum Operating Temperature	140 °C
Impact Strength (flatwise)	100 kJ/m ²	Thermal Expansion Coefficient	5 x 10 ⁻⁵ /°C
Shear Strength	137 N/mm ²	Swell in Water (ambient)	< 0.15%
Density	1.3 g/cc	Wear Rate (@ 10 N/mm ²)	1.11 x 10 ⁻¹⁶

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