

Product Information



Wirelife® Low Tox® Penetrating Lubricant (2011)

Load-Carrying Oil Is Tough on Rust, Gentle on Environment

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Designed for marine environments and other applications where environmental concerns require the use of a very low toxicity wire rope and chain lubricant, LE's Wirelife® Low Tox® Penetrating Lubricant (2011) has excellent load-carrying capability and provides outstanding protection against rust, while having the lowest possible toxic effect on the environment.

Beneficial Qualities

Environmental Sensitivity

- Is ideal for use in aquatic or other environmentally sensitive areas
- Exhibits up to a tenfold reduction in eco-toxicity while maintaining good lubricant performance
- Has a lower toxic effect on aquatic organisms than conventional competitive products
- Unlike other biodegradable oils that break down quickly but with relatively high toxicity, Wirelife Low Tox Penetrating Lubricant biodegrades slowly but with less toxicity, minimizing environmental impact and posing less danger to aquatic life

Penetrating Ability

- Contains a petroleum solvent to enhance penetration into the core of the rope

High Load-Carrying Capacity

- Excellent for heavily loaded standing or running wire ropes
- Causes less rope fatigue, which leads to extended wire rope life

Rust & Corrosion Protection

- Performs extremely well in marine environments
- Resists rust and corrosion

Easy Application

- Can be dipped, sprayed on with automatic equipment or hand-applied with a brush



Why Low Toxicity?

One question confronting scientists in environmental risk assessment is whether it is better for a material to be quickly biodegraded and possess relatively high toxicity or be low in toxicity and biodegrade at a slightly slower rate.

Lubrication Engineers believes that the latter option provides the best protection for the environment because it minimizes overall impact on the ecosystem.



Technical Data

Wirelife® Low Tox® Penetrating Lubricant

	2011
Color	Amber
Relative Density @60°F/60°F, ASTM D1298, without diluent	0.874
Viscosity @ 100°C, cSt, ASTM D445, without diluent	18.00
Viscosity @ 40°C, cSt, ASTM D445, without diluent	156.4
Viscosity @ 100°C, cSt, ASTM D445, with diluent	11.65
Viscosity @ 40°C, cSt, ASTM D445, with diluent	75.50
Flash Point °C (°F) (COC), ASTM D92, without diluent	210 (410)
Flash Point °C (°F) (COC), ASTM D92, with diluent	140 (284)
Pour Point °C (°F), ASTM D97, without diluent	-15 (5)
Pour Point °C (°F), ASTM D97, with diluent	-18 (0)
Rust Test 4 hrs @ 60°C, Sea H ₂ O, ASTM D665B, without diluent	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130, without diluent	1a
Four-Ball EP Weld Point kgf, ASTM D2783, without diluent	250
Four-Ball EP Load Wear Index kgf, ASTM D2783, without diluent	41.55
Four-Ball Wear @75°C, 1,200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D4172, without diluent	0.39
Acid Number mg KOH/g, ASTM D664, without diluent	0.60
Base Number ASTM D4739, without diluent	0.58
HTSUS Classification	2710.19.3080
Schedule B	2710.19.3080

Typical Applications

- For wire rope, cable and chain applications with frequent exposure to the environment, particularly those near water.

