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APPLICATION SUMMARY

Tubular heating elements are versatile electric heating devices consisting of a resistance wire embedded within a metal sheath and insulated by highly compacted magnesium oxide powder. When electrical current passes through the resistance wire, heat is generated and efficiently transferred through the sheath to the surrounding air, liquid, or solid surface.

KEY FEATURES AND BENEFITS

- Robust, vibration-resistant construction
- Suitable for air, liquid, and surface heating
- Customisable lengths, diameters, voltages, and watt densities
- Can be formed into complex shapes to suit equipment designs
- Available in stainless steel, Incoloy, and other sheath materials
- Long service life with reliable performance

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DIMENSIONS AND TOLERANCES

Diameters 8mm and 11mm.

Lengths up to 5.2 meters.

Bent to Many different shapes, Straight, U-shape, M-shape, spiral, custom profiles to your requirements.

MATERIALS OF CONSTRUCTION

Sheath materials 321 Stainless Steel, Incoloy 800, Incoloy 825 and Titanium

Heating Coil: Nickel-Chromium (NiCr) resistance wire.

Insulation: High-purity compacted Magnesium Oxide (MgO).

Terminals: Nickel-plated steel, stainless steel, brass, or custom alloys depending on application requirements.

ELECTRICAL, THERMAL OR MECHANICAL PERFORMANCE

Voltage: 12V to 415V AC/DC

Power Rating: Up to 10kW per element (Higher on Request)

Recommended Maximum Sheath Temperature: Up to 700°C

STANDARDS AND CERTIFICATIONS

Local Australian manufactured to ISO9001:2015

REVISION HISTORY AND TECHNICAL CONTACT

Revision	Issue date	Description	Prepared/approved by
[A]	29.9.26	For Use	Jensen Nydal
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