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METALERT is a 100% Australian owned & operated, supplying critical processes and services locally, nationally and internationally.

Quality

Every process is tested and monitored utilising state of the art testing facilities.

We offer heat treatment certificates as part of every order. Heating Charts are also available for each process these charts indicate the exact processes from start to finish including controlled ramp up, soak and controlled ramp down temperatures, dates and times.












All information is 100% traceable back to origin from start to finish.

If you are not receiving a full set of charts from start to finish then you run the risk that you may not be receiving the full process cycle that is required in many heat treatment standards.

We also offer subcontracted NATA approved mechanical, chemical and non-destructive testing.

Our systems, processes and standards are based on the principles of ISO 9001 with core values of traceability and repeatability - Although we are currently not accredited (as this site has been in the past) due to lack of demand.

Industries

-  Petrochemical
-  Naval & Defence
-  Marine
-  Mining
-  Locomotive
-  Lifting & Rigging
-  Agricultural
-  Power Generation
-  Tool & Die
-  Machine Shops/
-  Engineering & Fabrication

Some of our processes

- Annealing
- solution anneal
- Carbonitriding
- Carburising (Case Harden)
- Cryofreezing
- Gas Nitriding
- Harden & Temper
- Age harden
- Nitrocarburising
- Normalising
- Stress Relieving
- Liquid salt bath

Capabilities

Items from less than 1kg to over 50,000kg weight.

Equipment

- **Stress Relieving** - 2300mm H x 3220mm D x 7800 mm L (Our furnace is modular allowing us to treat larger items over 12m in length)
- **Open Chamber Furnace** - 1400mm H x 2400mm W x 2900mm L (normalising, quench & temper, anneal, solution anneal & age harden)
- **Fluid Bed Furnace** - 1000mm H x 480mm W x 2800 L (Inert, controllable atmosphere). Annealing, carbon nitriding, carburising (case harden), gas nitriding, nitrocarburising, quench & temper and age harden
- **Cryofreezing** - 750mm H x 450mm W x 1070mm L
- **Salt Bath** - 700mm H x 850mm W x 500mm L
- Array of ancillary equipment like hot washes and tempering furnaces

Please enquire for our full range of capabilities. Heat Treatment, Non destructive testing, mechanical testing, specialty metals & more.

