



Heat Treatment A U S T R A L I A

Cryotemp®

If you use metal tools or parts, you could save substantial sums of money by having them Cryotemp® processed at Heat Treatment Australia.

The company trademarked its process after more than 10 years of research and development of cryogenics techniques. Basically the process involves a unique combination of low temperature cryogenic treatment and tempering which causes retained austenite to be converted to martensite, and finer carbides to be formed in the crystal structure of an item.

Cryotemp® is a one-time permanent treatment which gives them longer life.

This means you don't have to sharpen cutting tools, or invest in new engine parts as often. You could dramatically reduce your consumption of perishable tools. And your service down-time could be lessened. Importantly, Cryotemp® does not change a product's dimensions nor make it brittle. And it is not just a coating. Its effects are permanent and are evident throughout the material's entire cross section.

Tools and wearing parts could last two to five times longer than usual after undergoing the process. Cryotemp® is effective on both used and new items.

Features and benefits of Cryotemp®

It lengthens work life of parts and tools. High alloy steel cutting tools stay sharp longer, with fewer micro cracks and less chipping.

It lowers residual stress, thus improving dimensional control in aluminium, titanium and other metals.

Wear resistance is enhanced in steel and cemented carbide, chromium or tin coated tools and wear parts.

Copper welding electrodes gain longer life. They show less wear and deformation and can be used with less power input.

Tip burn-off is reduced on tungsten electrodes and they carry reduced amperage.

It stress relieves forgings and castings to ensure dimensional stability during final machining.

It stress relieves metals for tear-free drawing.

It dimensionally stabilises nylon components.

BRISBANE
PO BOX 6186
Acacia Ridge DC
QLD 4110 Australia
Ph (07) 3345 4944
Fax (07) 3345 6376

SYDNEY
33 Cann Street
Guildford NSW
2161 Australia
Ph (02) 9681 3050
Fax (02) 9681 3297

MELBOURNE
40 B Capital Link Drive
Campbellfield VIC
3061 Australia
Ph (03) 9357 8393
Fax (03) 9357 8394

Email: info@heat.com.au ■ <http://www.heat.com.au>