

# Thermal Processing

NeoNickel has been providing speciality thermal processing alloys to the thermal process industry for a number of years. Our comprehensive inventory includes a diverse mix of heat resisting alloys that provide both excellent strength and oxidation resistance for equipment that operates in the 540 - 1150°C range.

## Heat Treating

Our thermal processing alloys are used for bar frame baskets, corrugated shrouds, and many other applications in the heat treatment and furnace building industries.

## Steel and Aluminium Mills

Our materials are used for equipment such as radiant tubes, inner covers, argon oxygen decarburization (AOD) hoods and chutes, furnace rollers, heat shields, coal injection lances, burners, and recuperators.

## Flare Tips

Flare tips and other high temperature applications utilise alloys such as 800H/AT, RA330®, 253MA® and 310S Stainless steel. RA330® provides a cost effective solution for process equipment that requires oxidation resistance up to 1148 °C.

## Associated Alloys:

### Nickel Alloys

602 CA®  
800H/AT  
Alloy 230  
Alloy 600  
Alloy 601  
Alloy 625  
RA330®  
RA333®

### Stainless Steel Alloys

253 MA®  
Alloy 310S  
Alloy 321

## Commonly Used Applications:

- Bar Frame Baskets
- Corrugated Shrouds
- Radiant Tubes
- Furnace Muffles
- Furnace Belts
- Vacuum Treating
- Annealing
- Furnace Rollers

For more information on our Thermal Processing services visit our website

[www.neonickel.com](http://www.neonickel.com)



NeoNickel is the exclusive representative of Corrosion Materials Inc. & Rolled Alloys Inc. in Europe.

## PRODUCT FORMS

### Available product forms:

- Plate
- Sheet
- Coil
- Bar
- Pipe
- Tube
- Fittings
- Flanges
- Welding Consumables
- Added Value Components
- Machined Components
- Valve Seats
- Precision Ground Bar & Shafts

## PROCESSING

- Laser
- 2D Laser Inspection
- Waterjet
- Guillotine
- Bar Saw
- Plate Saw
- Metal Spinning
- Positive Material Identification

In addition to the wide range of alloys and product forms available from stock, our Sheffield Conversion Centre can now offer a range of items produced by:

- Open and Closed Die Forging
- GFM Forging
- Rolling
- Heat Treatment
- Machining / Grinding

Qualified metallurgists control all processing, inspection, mechanical and corrosion testing and NDT.

## LABORATORY SERVICES

### Our laboratory provides:

- Laboratory testing
- Failure analysis
- Materials selection, process & application review - plant visit and consultancy
- Formal reports

## OUR LOCATIONS

**Blackburn**  
+44 (0) 1254 582 999

**Kingswinford**  
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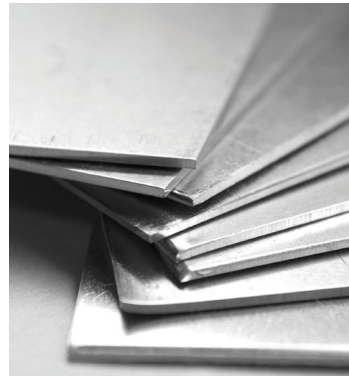
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## TECHNICAL PROBLEM?

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