



# Petrochemicals & Refineries

**NeoNickel is the European market leader in the supply of corrosion resistant and high temperature alloys for the Petrochemicals and Refineries market.**

NeoNickel materials stocked include a complete range of products in corrosion resistant and high temperature materials used in the Petrochemicals and Refineries markets for the construction of process plants.

In the Petrochemicals market NeoNickel corrosion resistant alloys including Duplex, Super Duplex, C276, 22, B2/B3 and Titanium Grade 2 are used in the manufacture of acetic acid and acetic anhydride, which are key raw materials for the manufacture of washing bleaches and pharmaceuticals. More over they are used in the manufacture of PTA (terephthalic acid) to produce plastic bottles, filters and polyester materials. These alloys can also be found in the manufacture of MMA (Methyl Methacrylate Monomer) and Methacrylic acid used in the manufacture of acrylics for paints additives and adhesives.

In the Refineries market high temperature alloys are used in the construction of steam crackers, and naphtha crackers for the production of Ethylene, Polyethylene, Styrene and Polypropylene. Alloy C276, 22 and alloy X are used in the manufacture of carbon black (waste product from crude oil) to make car tyres.

RA330, alloys 600, 601 and 310S stainless are used extensively for the construction of flare stacks.

## Commonly Used Applications:

- Pressure Vessels
- Heat Exchangers
- Separators
- Manifolds
- Instrumentation
- Flow Control Equipment
- Pumps and Valves
- Safety Systems

## Associated Alloys:

Nickel & Titanium Alloys	Duplex Stainless Steels
Alloy 20	F51
Alloy 22	UNS S32205
Alloy 200/201	UNS S31803 / 2205
Alloy 600	
Alloy 601	
Alloy 602CA	
Alloy 625	
Alloy 718	
Alloy 725	
Alloy 800H/AT	
Alloy 825	
Alloy B2/B3	
Alloy C276	
Alloy K500	
Alloy RA330 ®	
Alloy RA333 ®	
Titanium Grade 2	
Titanium Grade 5	

Super Duplex Stainless Steels
F55
UNS S32760
ZERON® 100
ZERON® 100 AFP

Stainless Steels
AL-6XN
Alloy 253MA
Alloy 309
Alloy 310S
Alloy 321
Alloy 347

## 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**  
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**Kingswinford**  
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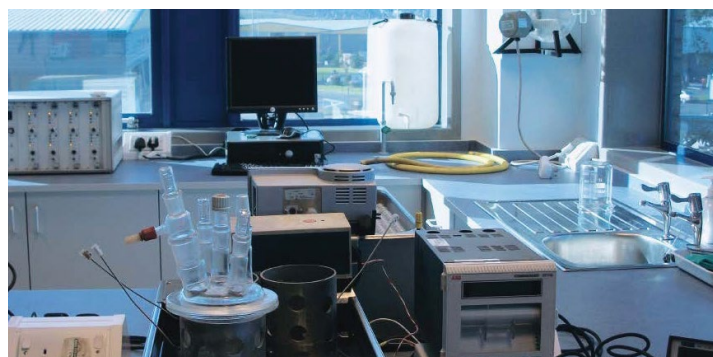
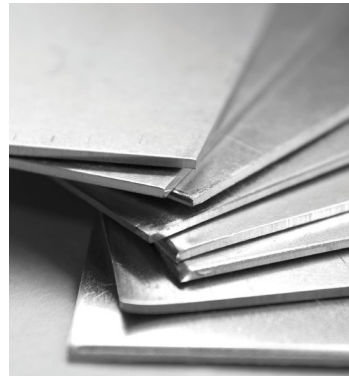
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## TECHNICAL PROBLEM?

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