



# Power Generation

Our power generation alloys are used in the most demanding applications within coal fired power plants, nuclear power plants and energy recovery units.

## Boilers

Materials used in power station boiler applications are selected for their creep strength and hot corrosion resistance in elevated temperature environments. Depending on the presence of chlorine, sulfur or molten salts, alloys 253MA, 309, 310, RA330®, and 601 are utilized.

## Pollution Control

Many of our alloys are used in pollution control systems, such as flue gas desulfurization (FGD) units, wet electrostatic precipitators (WESP), as well as some carbon capture absorbers. They utilise corrosion resistant alloys C276, 22, C263, 625, 20, and AL-6XN® in aggressive environments.

## Commonly Used Applications:

- Burners
- Low Nox Burners
- Dampers
- Biomass
- FGD Gas Desulphurisation
- Carbon Capture

## Associated Alloys:

### Nickel Alloys

602 CA®  
800H/AT  
Alloy 22  
Alloy 230  
Alloy 600  
Alloy 601  
Alloy 625  
Alloy 718  
Alloy 725  
Alloy C263  
Alloy C276  
Alloy X  
RA330®  
RA333®

### Cobalt Alloys

Alloy 188  
L605

### Stainless Steels

253MA®  
AL-6XN®  
Alloy 310S  
Alloy 321

### Super Duplex Stainless Steels

F55  
UNS S32760  
ZERON® 100  
ZERON® 100 AFP

## 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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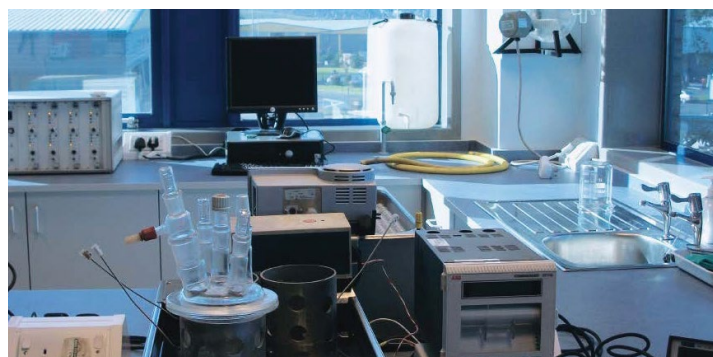
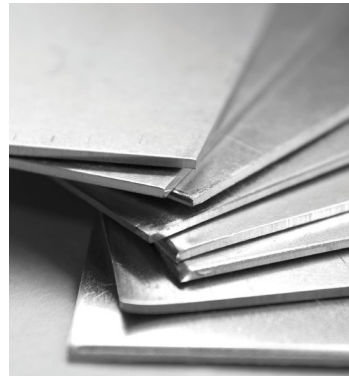
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## TECHNICAL PROBLEM?

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