

# Nickel Alloy 75

## *Typical Applications*

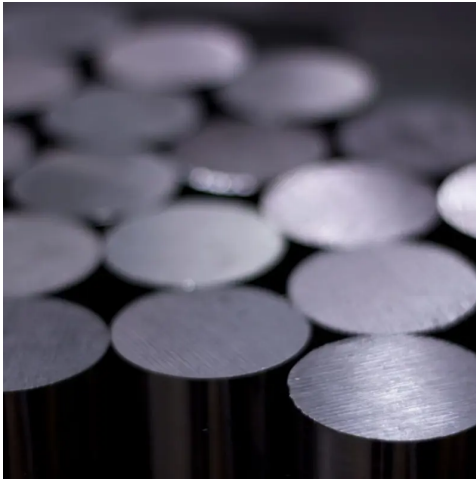
Components for industrial and aircraft gas turbines

Industrial furnace components

High Temperature fasteners

Thermocouple sheathing

Heat treating equipment and fixtures



*Alloy 75 is a creep resistant nickel-chromium alloy with a controlled carbon content and a small addition of titanium.*

Alloy 75 has good mechanical properties and oxidation resistant at high temperatures.

## **Related Products**

**Alloy 200 201**

**Alloy 625 Bar**

**Alloy 625 Sheet And Plate**

**Alloy 718 Bar**

**Alloy 718 Sheet Plate**

**Alloy 75**

**Alloy 80A**

**Alloy X750**

**Alloy X Bar**

**Alloy X Sheet Plate**

**C263**

**Mp159 R Bar**

**Mp35N R**

**Rene 41**

**Waspaloy**

**Alloy 90**

**Alloy 901**

## **Technical specification**

### *Related Specifications*

**BS HR5**

**BS HR504**

**UNS N06075**

**DIN 17752**

**ISO 9723**

**W.Nr 2.4630**

## Density

8.37 g/cm<sup>3</sup>

## Chemical Composition (WT %)

|           | Min  | Max  |
|-----------|------|------|
| <b>Ni</b> | -    | Ba   |
| <b>Cr</b> | 19   | 21   |
| <b>Fe</b> | -    | 5    |
| <b>C</b>  | 0.08 | 0.13 |
| <b>Mn</b> | -    | 1.0  |
| <b>Si</b> | 0.3  | 0.7  |
| <b>Cu</b> | -    | 0.5  |
| <b>Al</b> | -    | 0.3  |
| <b>Ti</b> | 0.2  | 0.6  |

## Typical Mechanical Properties in the Solution Treated Condition

|                          |     |     |
|--------------------------|-----|-----|
| <b>0.2% Proof Stress</b> | MPA | 240 |
| <b>Tensile Strength</b>  | MPA | 650 |
| <b>Elongation</b>        | %   | 25  |

This steel has been supplied in a condition with a minimum hardness of 230 HB (less equal) for general applications. However, you will receive a certificate with a hardness value in place of the HB specification. Additional properties are available on request with additional supply conditions such as heat treatment, temper and grinding conditions.

The hardness of all components of systems tested shall be reported in any certificate by way of the quality of reference of the test procedure.

The hardness specified in the certificate has been determined from multiple measurements. We guarantee a guarantee of the hardness of the material in accordance with the standard across the entire length of the component of the material in accordance with the standard.

Where applicable, systems shall not be supplied with any additional heat treatment in the form of tempering or annealing.

All the products described in this certificate are made of a single piece of material and are systems that have been tested and certified. Systems that are made of multiple pieces of material or systems that are made of multiple pieces of material or systems that are made of multiple pieces of material are not covered by this certificate.

Materials by System shall not be used for applications that require a higher hardness, and adjustments in the form of tempering or annealing.

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Need more information? **Get in touch**

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## General Enquiries

+44(0) 1525 217 556

Email us here

## Head Office

40 Eden Way  
Chartwell Business Park  
Leighton Buzzard  
Bedfordshire  
LU7 4FY

T: +44 (0)1525 217 556

## Conversion Centre

Suite 2 Meadowhall Riverside  
Meadowhall Road  
Sheffield  
South Yorkshire  
S9 1BW

T: +44 (0)1143 030 320

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