



Alloy 59 / 2.4605

The nickel-chromium-molybdenum Alloy 2.4605 (alloy 59) is often used for chemical industry, pulp and paper industry as well as flue gas desulfurization plants. E are able to deliver tubes, tube accessories, flanges, rods and bars as well as sheets and plates in 2.4605 (Alloy 59). Alloy 59 is stated in BAM-List (Hazardous Materials Transportation).

Gehe zu



Material Data Sheet

| | |
|----------------------------|-------------------|
| Material Designation | 2.4605 |
| Alloy | Alloy 59 |
| EN Material Symbol | NiCr23Mo16Al |
| UNS | N 06059 |
| Trademark | Nicrofer® 5923hMo |
| Norm DIN | EN 17744 |
| VdTÜV Technical Data Sheet | 505 |

Main fields of application of alloy 59

Alloy 59 is used for: environmental technology, chemical industry (chemical processes with oxidating and reducing acids, resistance against damp chloric gas) and solid waste incinerators. Predominantly 2.4605 is used for chemical industry, pulp and paper industry and flue gas desulfurization plants.

Chemical composition of alloy 59

| C | Si | Mn | P | S | Cr |
|------|-----|------|-------|-------|-----------|
| ≤ % | ≤ % | ≤ % | ≤ % | ≤ % | % |
| 0,01 | 0,1 | 0,50 | 0,025 | 0,015 | 22,0-24,0 |

| Mo | Ni | Al | Co | Cu | Fe |
|-----------|------|-----------|------|------|------|
| % | % | % | ≤ % | ≤ % | ≤ % |
| 15,0-16,0 | Rest | 0,10-0,40 | 0,30 | 0,50 | 1,50 |

Characteristics of alloy 59

| | |
|--|---|
| Temperature Range | Material for wet corrosion |
| Density | 8,6 g/cm ³ |
| ISO-V notch impact toughness | ≥ 225 J/cm ² at room temperature ≥ 200 J/cm ² bei -196°C |
| Low sensitivity for intercrystalline corrosion | |

Delivery program

| | |
|--------------------|-------------------|
| Rods and Bars: | 8 – 85/115sq mm |
| Sheets and Plates: | 2 – 40 mm |
| Coils: | 2 mm |
| Elbows: | OD 48,3 – 88,9 mm |
| Tubes: | OD 10,2 – 273 mm |

With short delivery time:

plates or sheets, tubes, flanges, forged or die-cut rings and round blanks, elbows, T-fittings, reductions, screws, nuts or washers according to your request. According to your individual wishes, we are able to cut our material with our plasma- or water jet cutter. Our material is stocked in superformats of 2000x6000mm. Cut to size on request.

Material Outlet by Hempel

ECONOX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

Contact us

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Services

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Weight Calculator