2.4605

**Material No.** | 2.4605
--- | ---
**EN symbol (short)** | NiCr23Mo16Al
**AISI/SAE** | —
**UNS** | N 06059
**AFNOR** | —
**BS** | —
**alloy** | alloy 59
**Registered work's label** | Nicrofer® 5923hMo
**Standards** | DIN EN 17744

**DESCRIPTION**
The chemically stable and high-temperature resistant nickel and cobalt alloy 2.4605 (alloy 59) is mainly used in the chemical industry, flue gas desulphurating plants, paper industry.

Our product range in 2.4605 (alloy 59) are tubes and pipes, fittings and flanges, accessories.

**CHEMICAL COMPOSITION**

<table>
<thead>
<tr>
<th>C (%)</th>
<th>Si (%)</th>
<th>Mn (%)</th>
<th>P (%)</th>
<th>S (%)</th>
<th>Cr (%)</th>
<th>Mo (%)</th>
<th>Ni (%)</th>
<th>V (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,01</td>
<td>0,1</td>
<td>0,50</td>
<td>0,025</td>
<td>0,015</td>
<td>22,0-24,0</td>
<td>15,0-16,0</td>
<td>Bal</td>
<td></td>
</tr>
</tbody>
</table>

1 in accordance with Key to Steel 2001

**SPECIAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Temperature range</th>
<th>Density kg/dm³</th>
<th>Hardness HB (20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-196 °C bis 450°C</td>
<td>8,6</td>
<td></td>
</tr>
</tbody>
</table>

chemically stable and high-temperature resistant nickel and cobalt alloy low susceptibility against intergranular corrosion

**WELDING FILLER**

covered rod electrode 2.4609

**MAIN FIELDS OF APPLICATION**

environmental technology, chemical industry, chemical processes with oxidizing and reducing media, stability against damp chlorgas, flue gas desulphurating plants, waste incineration plants, paper industry

(all aforementioned specifications serve as a general orientation and have to be reviewed depending on the specific conditions of use)