



## Alloy 901

### 1. Brief introduction:

It's a Ni-Fe-Cr alloy containing Ti and Al for precipitation hardening and Mo for solid-solution strengthening.

It has high-yield strength and creep resistance at temperatures to about 1110°F (600°C). A substantial iron content enables the alloy to combine high strength with good forging characteristics.

Used in gas turbines for discs and shafts.

### 2. Main specifications:

| USA               | UNS    | W.Nr   |
|-------------------|--------|--------|
| Nimonic Alloy 901 | N09901 | 2.4662 |

### 3. Chemical composition under ISO9725-2017 standard:

| Grade     | chemical composition,% |           |         |           |         |       |           |           |      |      |       |       |      |
|-----------|------------------------|-----------|---------|-----------|---------|-------|-----------|-----------|------|------|-------|-------|------|
|           | Ni                     | Cr        | Mo      | Fe        | Ti      | Al    | C         | B         | Cu   | Mn   | P     | S     | Si   |
| alloy 901 | 40.0-45.0              | 11.0-14.0 | 5.0-6.5 | Remainder | 2.8-3.1 | ≤0.35 | 0.02-0.06 | 0.01-0.02 | ≤0.2 | ≤0.5 | ≤0.02 | ≤0.02 | ≤0.4 |

Remarks: If require adjustments for some chemical compositions, pls consult with us.

### 4. Main product types:

wire,rod,forging,bar.



Shanghai Hite Special Alloy Co., Ltd.  
<https://www.hitealloy.com>

**5. Main produce standards:**

Wire,Rod, Bar,Forging

BR HR55, SAE AMS 5660, SAE AMS 5661, ISO 9723, ISO9725

**6. Alloy901 source URL:**

<https://www.hitealloy.com/product/alloy901.html>