



## Alloy 783

### 1. Brief introduction:

It's an oxidation-resistant, low expansion, Ni-Co-Fe alloy with Al, Cr, and Nb additions.

Its Al content provides excellent resistance to oxidation at high temperatures.

The combination of low expansion, high strength and excellent resistance to oxidation makes this alloy especially useful for gas turbine and steam turbine components.

### 2. Main specifications:

USA	UNS
Inconel 783	R30783

### 3. Chemical composition under SAE AMS5940D standard:

Grade	chemical composition, %														
	Ni	Cr	Fe	Co	Al	Nb	B	Mn	C	Si	Cu	S	P	Ti	Ta
UNS R30783	26.0-30.0	2.5-3.5	24.0-27.0	Remainder	5.0-6.0	2.5-3.5	0.003-0.012	≤0.5	≤0.03	≤0.5	≤0.5	≤0.005	≤0.015	≤0.4	≤0.05

### 4. Main product types:

wire, rod, forging, bar, strip, sheet/plate, tube/pipe.



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

**5. Main produce standards:**

Wire,Rod, Bar,Forging,Ring

SAE AMS5940D

**6. Alloy 783 source URL:**

<https://www.hitealloy.com/product/alloy-783.html>

Shanghai Hite Special Alloy Co., Ltd.  
Shanghai Hite Special Alloy Co., Ltd.