

FERRITIC STAINLESS STEEL	
EN DESIGNATION	ASTM DESIGNATION
1.4003	3CR12L
	S41003

### **Description:**

3CR12L is recognized as the original and now the world's most specified 12% chromium utility ferritic stainless steel. The main advantage of these utility ferritic over other ferritic stainless steels is that they are tough, even when welded, in thicknesses of up to 30mm and retain their toughness at temperatures below freezing point. The corrosion resistance of the utility ferritic is largely determined by their chromium content and is thus similar to other 12% chromium ferritic stainless steels.

### **Chemical Composition:**

C	S	P	Mn	Si	Cr	Ni	N
≤ 0.03	≤ 0.015	≤ 0.040	≤ 1.50	≤ 1.00	10.50-12.50	0.30-1.00	≤ 0.03

### **Mechanical Properties:**

Rm (MPa)	Rp0.2 (MPa)	A50 (%)	HRC
455	275	≥ 18	≤ 20

### **Applications:**

The applications include materials handling (bulk handling, coal, sugar, agriculture, abattoirs), road transport (passenger vehicles, coaches and buses, trucks, freight and utility vehicles), rail transport (freight, passenger rail, light rail, rail infrastructure), petrochemicals and chemical, power generation, laboratory table.

### **Specifications:**

It can be delivered according to EN, ASTM, ASME standard requirements.