

# 403Cb, 410Cb, B50A790, XM-30, UNS S41040 - Steels of Blade for Steam and Gas Turbine Datasheet

403Cb, 410Cb is a martensitic stainless steel, this alloy has higher strength and toughness, the addition of columbium can improve grain size control and make it easier to heat treat, mainly used in electrical energy.

## Chemical Composition

Grade	Chemical composition WT %															
	C	Si	Mn	P	S	Cr	Ni	Mo	W	V	Ti	N	Sn	Al	Cu	Co
403Cb, B50A947	0.06-0.15	0.5	0.25-0.65	0.025	0.010	11.25-13	0.6	0.3	0.1	Tried	0.05	Tried	0.05	0.025	0.2	0.2

## Mechanical Properties

### 403Cb Mechanical properties acc. to B50A947

- Tensile strength  $R_m$  MPa: Min 760
- Yield Strength  $R_p$  MPa: Min 555
- Elong In2 inches %: min 15
- RA %: min 15
- Brinell Hardness, 3000Kg Load %: 223-269
- V-Notch Charpy Min. Energy at R.T. ft-lbs(J): min 25(33.9)



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## Physical Properties

## Heat Treatment

## Welding Properties

Good welding property

## Machining Properties

Good machining property

## Similar or Equivalent Steel Grade