

Material specification sheet

Saarstahl - 39MnCrB6-2

Material No.: 1.7189
 Former brand name:
 International steel grades:
 BS:
 AFNOR:
 SAE:

Material group: Steel for quenching and tempering according to DIN EN 10083

Chemical composition: (Typical analysis in %)	C	Si	Mn	P	S	Cr	B
	0,36	<0,40	1,40	<0,035	<0,040	0,30	0,0008
	0,42		1,70			0,60	0,0050

Application: Boron alloyed heat treatable steel

Hot forming and heat treatment:

- Forging or hot rolling: -
- Normalising: -
- Soft annealing: -
- Hardening: 850°C
- Quenching: water max. 95 mm Ø,
oil max. 80 mm Ø

Mechanical Properties: Core hardness for an amount of 80 % martensite: 45 HRC at 850°C