



# Material Specification Sheet

## Alloy Cast Steel

**AS 708**

**A Cr-Mo alloyed material with a high amount of well distributed carbides in a pearlitic matrix.**

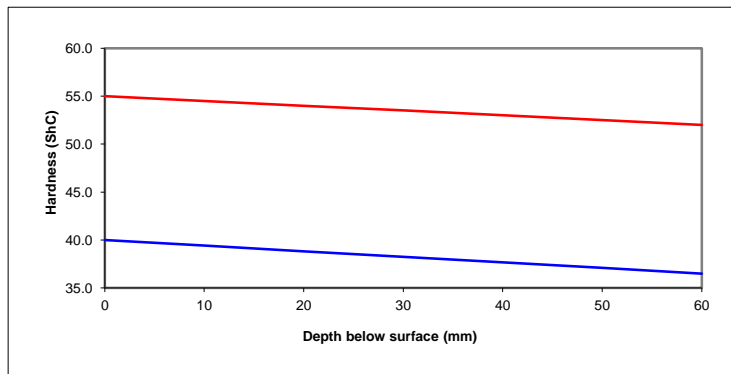
**The amount of carbide increases with increased carbon content.**

**This material will give good wear resistance but with lower strength and is ideal for section rolling where deep grooves are required.**

### Chemical Composition

	C	Mn	Si	P	S	Ni	Cr	Mo			
<b>Min</b>	1.60	0.60	0.40	0.000	0.000	0.00	0.50	0.00			
<b>Max</b>	2.40	1.40	1.20	0.100	0.100	0.80	1.30	0.60			

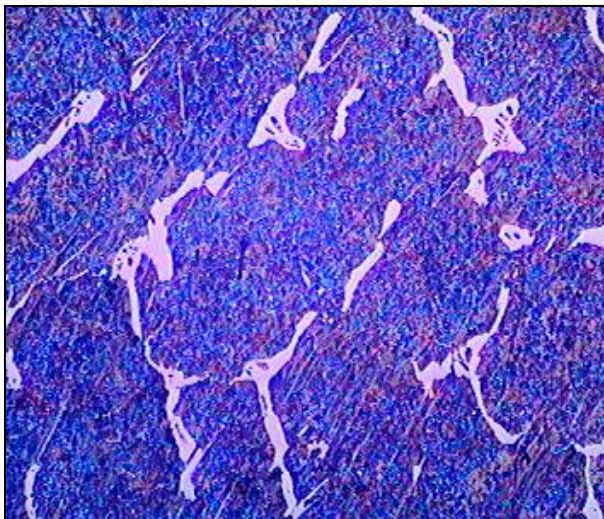
### Hardness Curve



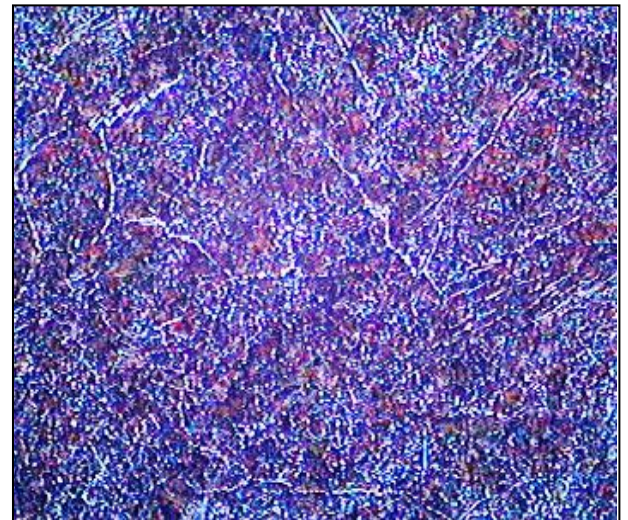
### Physical Properties

<b>Tensile Strength</b> (tensile test rod B12x60 DIN 50125)	450 to 500 MPa
<b>Bending Strength</b> (Bending test 10 at DIN 50110)	600 to 1000 MPa
<b>Impact strength</b> (ISO-V Test piece, DIN 50115)	1.5 to 2.5 J
<b>Percentage elongation</b> (after fracture)	< 1 %
<b>Alternating tensile - compression strength</b>	150 to 220 MPa

### Microstructure



**100 X - Normalised**



**100 X - Quenched**

Nov-11