

## TOOL STEEL - H13

### RELATED SPECIFICATIONS:

Europe	EN 1.2344
Germany	DIN X40CrMoV5-1
Great Britain	BS 4659 BH13
USA	AISI H13A
Japan	JIS-SKD61

### DESCRIPTION:

Hot worked tool steel with good tensile and wear resistance properties.

### APPLICATIONS:

General purpose hot worked tool steel used in a wide range of applications - Aluminium extrusion dies, backers and bolsters, stems and mandrels, die casting dies and forging inserts.

### TYPICAL CHEMICAL ANALYSIS:

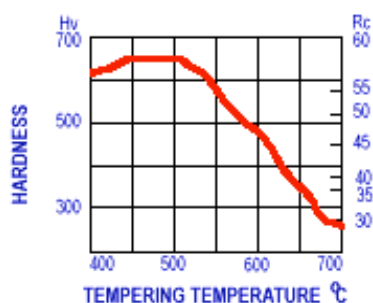
C %	Si %	Mn %	Cr %	Mo %	V %
0.39	1.00	0.40	5.25	1.35	1.20

### HARDENING:

Hardening should be done in controlled atmosphere, vacuum or fluidised bed furnaces. Preheat slowly to 450/800°C then raise to 1000/1030°C, holding for sufficient time to attain uniformity throughout the tool, air cool.

### TEMPERING:

Tempering should be carried out immediately after air quenching. Heat to 550/650°C, holding for one to three hours. Tools benefit from multitempering and a minimum of two tempers is recommended. Care should be taken to ensure tools cool to room temperature in between tempers. Also suitable for both bath and gas nitriding.



### SIZES AVAILABLE:

ROUNDS, FLATS AND SQUARES - Please contact your local branch for availability. Forgings also available for stems, containers and inner linings.

### COLOUR CODE: ROSE PINK AND DARK GREY END

