

## **MATERIAL DATASHEET**

Title:

1.2510

Material Grade: 1.2510

Material Condition(s): Annealed (Spherodised)

Surface Finish: Rough peeled

Associated Standard: Werkstoff

## Description:

1.2510 is a cold work tool steel that hardens at relatively low temperatures. It has good non-deforming characteristics and retains its original shape after hardening and tempering. It gives excellent wear resistance and is relatively easy to machine.

Typical applications: Cold roll forming, medium run dies, press tools, punches, broaches, measuring tools,

rotary shear knives, wood working machine tools.

## 1. STEELMAKING

	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>s</u>	<u>P</u>	<u>Cr</u>	$\underline{\mathbf{V}}$	<u>W</u>
Min	0.90	0.15	1.00			0.50	0.05	0.50
Max	1.05	0.35	1.20	0.035	0.035	0.70	0.15	0.70

## 2. <u>TYPICAL MECHANICAL PROPERTIES</u>

	Tensile and hardness test (at room temperature)							
Test type	Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness		
Unit	N/mm2	N/mm2	N/mm2	%	%	НВ	HV	
Annealed	Min							
Affilealed	Max						229	
Quench and tempered	Min							735
≤ 250mm dia	Max							

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