



**42CrMoS4**  
Special alloy steel

(W.NR. 1.7227)

**CHEMICAL COMPOSITION:** (analysis according to the EN ISO 683-2:2018 standard)

	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Cu%
FROM	0,38	0,10	0,60	-	0,020	0,90	0,15	-
TO	0,45	0,40	0,90	0,025	0,040	1,20	0,30	0,40

**\* MECHANICAL FEATURES:** (according to the EN 10277:2018 standard)

Thickness mm	annealed + cold drawn ( +A+C )
	hardness HB maximum values
$\geq 5 \leq 10$	300
$> 10 \leq 16$	290
$> 16 \leq 40$	285
$> 40 \leq 63$	280
$> 63 \leq 100$	280

\* Delivery condition: soft annealed.

**PROPERTIES :**

**Weldability:**

Bad weldability due to the high crack danger.

**Hardenability:**

Medium-good hardenability, suitable for hot purposes till a temperature of 500°.  
It can be hardened in oil.

**Notes :**

**CORRESPONDENCE WITH OTHER STANDARDS ( purely as an indication ) :**

<b>UNI 7845</b> 42CrMo4	<b>DIN 17200</b> 42CrMoS4	<b>AFNOR 35-552</b> 42CD4u	<b>AISI-SAE</b> 4140
----------------------------	------------------------------	-------------------------------	-------------------------