

# 42CrMoS4

W.Nr. 1.7227

General size range      Ø 16 – 1000 mm

Chemical composition	<b>C=0,38-0,45</b>	<b>Si=max.0,40</b>	<b>Mn=0,60-0,90*</b>	<b>P=max.0,035</b>	<b>S=0,020-0,040</b>
	<b>Cr=0,90-1,20</b>	<b>Mo=0,15-0,30</b>	<b>Al=min.0,020</b>	<b>Cu=max.0,30</b>	

\*Mn=0,50-0,80 acc. to SEW 550

Grade equivalents  
Similar grades

<b>708/709M40</b> <b>BS</b>	<b>42CrMo</b> <b>GB</b>	<b>42CD4</b> <b>AFNOR</b>	<b>SCM440</b> <b>JIS</b>	<b>15142</b> <b>CSN</b>
<b>4140</b> <b>SAE</b>	<b>38CrMo4</b> <b>UNI</b>	<b>2244</b> <b>SS</b>	<b>40ChFA</b> <b>GOST</b>	

Hot rolled      Ø 16–310 mm

<b>Tolerances</b>	EN 10060	or +/- 1,3% of dN	or specific tol.
<b>Lengths</b>	6 m +200/-0 mm	or 3 – 6 m	or specific lengths
<b>Heat treatment</b>	+A EN 10083-3	or +N EN 10083-3	or +QT EN 10083-3 or +AR
<b>Surface defects</b>	EN 10221/B	or max. 1,5%	or specific value
<b>US test</b>	SEP 1921 3C/c	or EN 10308	or specific FBH eq.

Forged black      Ø 250–1000 mm

<b>Tolerances</b>	DIN 7527/6	or specific tol.
<b>Lengths</b>	3 – 6 m	or specific lengths
<b>Heat treatment</b>	+A EN 10250-3	or +N EN 10250-3 or +QT EN 10250-3 or +QT SEW550
<b>Surface defects</b>	max. ½ the tol.	or specific depth
<b>US test</b>	SEP 1921 3C/c	or specific FBH eq.

Peeled      Ø 16–100 mm

<b>Tolerances</b>	EN 10278 h9	or EN 10278 h11	or specific tol.
<b>Lengths</b>	6 m +200/-0 mm	or specific lengths	
<b>Heat treatment</b>	+A h9/ h11	or +N h9/ h11	or +QT h11
<b>Surface defects</b>	max. 0,2 mm	or specific depth	
<b>US test</b>	SEP 1921 3C/c	or specific FBH eq.	

Forged turned      Ø 250–850 mm

<b>Tolerances</b>	+3/-0 mm	or +4/-0 mm	or +5/-0 mm	or specific tol.
<b>Lengths</b>	3 – 6 m	or specific lengths		
<b>Heat treatment</b>	+A EN 10250-3	or +N EN 10250-3	or +QT EN 10250-3 or +QT SEW550	
<b>Surface defects</b>	technically free	or specific depth		
<b>US test</b>	SEP 1921 3C/c	or specific FBH eq.		

Other available products

squares-hexagons rolled, squares-hexagons cold drawn, squares-flats forged, squares- flats forged and milled, square billets rolled, square billets CC cast

Mill's test certificate

EN 10204/3.1 with all relevant data reg. chem. composition, mech. properties and results of testing

- supply range file - issued: 20.02.2009 rev. 1