



**ASTM A193 B7**

INTERNATIONAL EQUIVALENT CODES

<table border="1"> <tr><th>Europe</th></tr> <tr><td>EN</td></tr> <tr><td>42CrMo4</td></tr> </table>	Europe	EN	42CrMo4	<table border="1"> <tr><th>Italy</th></tr> <tr><td>UNI</td></tr> </table>	Italy	UNI	<table border="1"> <tr><th>Germany</th></tr> <tr><td>DIN</td></tr> <tr><td>W.n.</td></tr> <tr><td>1.7225</td></tr> </table>	Germany	DIN	W.n.	1.7225	<table border="1"> <tr><th>UK</th></tr> <tr><td>B.S.</td></tr> </table>	UK	B.S.	<table border="1"> <tr><th>USA</th></tr> <tr><td>ASTM</td></tr> <tr><td>A193 B7</td></tr> <tr><td>UNS</td></tr> <tr><td>G41400</td></tr> </table>	USA	ASTM	A193 B7	UNS	G41400
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CHEMICAL REQUIREMENTS (Composition , percent)

C	Mn	Max Phosph	Max Sulfur	Si	Cr	Nickel	Mo	Copper	Niobium	Titanium	Vanadium	Max Al	Max Cobalt	Max Iron
0.38-0.48	0.75-1.00	0.035	0.040	0.15-0.35	0.80-1.10	--	0.15-0.25	--	--	--	--	--	--	--

MECHANICAL REQUIREMENTS

Diameter,in.	MinTempering Temperature ,°F	Tens.strength, min, ksi	Yield Strength, min, 0,2%offset ksi	Elongation 4D, min	Reduction of Area,min,%	Hardness max
2.1/2" and under	1100	125	105	16	50	321HBW or 35 HRC
over 2.1/2" to 4"	1100	115	95	16	50	321HBW or 35 HRC
over 4" to 7"	1100	100	75	18	50	321HBW or 35 HRC

Diameter,in.	MinTempering Temperature ,°C	Tens.strength, min, Mpa	Yield Strength, min, 0,2%offset Mpa	Elongation 4D, min	Reduction of Area,min,%	Hardness max
M64 and under	593	860	720	16	50	321HBW or 35 HRC
over M64 to M100	593	795	655	16	50	321HBW or 35 HRC
over M100 to M180	593	690	515	18	50	321HBW or 35 HRC