Material properties

Material **17 Mn 4 (Germany / DIN)**

Group Structural and constructional steels

Subgroup DIN 17155-2 Steel plates and strips for pressure purposes

Comment Unalloyed and alloyed steels with specified elevated temperature properties; DIN 17155-2 was superseded by EN 10028-2

Application -

Yield Stress[MPa]			
Dimension	**Min**	**Max**	**Approx**
Plate; Strip; Normalized; <= 16 mm	290	-	-
Plate; Strip; Normalized; > 16 <= 40 mm	280	-	-
Plate; Strip; Normalized; > 40 <= 60 mm	280	-	-

Tensile Stress[MPa]			
Dimension	**Min**	**Max**	**Approx**
Plate; Strip; Normalized; <= 16 mm	470	560	-
Plate; Strip; Normalized; > 16 <= 40 mm	470	560	-
Plate; Strip; Normalized; > 40 <= 60 mm	470	560	-

Chemical Composition [%]			
Criterion	**Min**	**Max**	**Approx**
C	0.1400	0.2000	-
Si	0.2000	0.4000	-
Mn	0.9000	1.2000	-
P	-	0.0500	-
S	-	0.0500	-
Cr	-	0.3000	-

Heat Treatment

Hot working: 1100-850 C;
Normalizing: 880-910 C;
Stress relieving: 550-620 C

Cross Reference Table

Material	Standard	Country
P 295 GH	**AFNOR NF**	France
SA-414 Grade F	**ASME**	USA
A 414 Grade F	**ASTM**	USA
A 234 Grade WPC	**ASTM**	USA
A 210 Grade C	**ASTM**	USA
P 295 GH	**B.S.**	United Kingdom
16 GS	**BDS**	Bulgaria
13030	**CSN**	Czech Republic
11478	**CSN**	Czech Republic
P 295 GH / 17 Mn 4	**DIN**	Germany
1.0481	**EN**	European Union
P 295 GH	**EN**	European Union
14G2	**GOST**	Russia
SG 365	**JIS**	Japan
C 3105	**JUS**	Yugoslavia
P 295 GH	**NBN**	Belgium
17 Mn 4 KW	**ONORM**	Austria
K 460	**STAS**	Romania
Fe 510-2 KW	**UNI**	Italy
Fe 510-1 KT	**UNI**	Italy
Fe 510-1 KG	**UNI**	Italy
Fe 510-1 KW	**UNI**	Italy
Fe 510-2 KG	**UNI**	Italy
P 295 GH	**UNI**	Italy
Fe 510-2 KT	**UNI**	Italy
K03501	**UNS**	USA
K02203	**UNS**	USA
1.0844	**WN**	Germany

Cross Reference Table

Material	Standard	Country
1.0481	WN	Germany