	C	Mn	Si	S	P	Cr	Ni	Mo	V	W	Co	Se	Pb	Zr
EN1A	.07/.15	.80/1.20	.10 Max	0.2/0.3	.07 Max	-	-	-	-	-	-	-	-	-
EN1B	.07/.15	1.0/1.40	.10 Max	0.3/0.6	.06 Max	-	-	-	-	-	-	-	-	-
EN2	.20 Max	.80 Max	.10 Max	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN2A	.12 Max	.50 Max	.10 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN2A/1	.10 Max	.50 Max	.10 Max	.04 Max	.04 Max	-	-	-	-	-	-	-	-	-
EN2B	.15 Max	.50 Max	.10 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN2C	.15/.25	.40/.60	.10 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN2D	.15/.30	.40/.70	.10 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN2E	.15 Max	.50 Max	.10/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN3	.25 Max	1.0 Max	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN3B	.25 Max	1.0 Max	.35 Max	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN3C	.17/.23	.60/1.0	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN3D	.15/.25	.60/1.0	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN4	.30 Max	1.0 Max	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN5	.25/.35	.60/1.0	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN5A	.25/.30	.70/1.0	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN5B	.28/.33	.70/.90	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN5C	.30/.35	.70/.90	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN5D	.25/.35	.60/1.0	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN5K	.25/.35	.60/1.0	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN6	.35/.40	.50/.90	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN6A	.30/.40	.60/.90	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN7	.10/.30	.70/1.3	.25 Max	.10/.18	.06 Max	-	-	-	-	-	-	-	-	-
EN7A	.12/.18	1.0/1.5	.25 Max	.10/.18	.06 Max	-	-	-	-	-	-	-	-	-
EN8	.35/.45	.60/1.0	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN8A	.33/.38	.70/.90	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN8B	.35/.40	.70/.90	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN8C	.38/.43	.70/.90	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN8D	.40/.45	.70/.90	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN8E	.35/.40	.90/1.10	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN8K	.35/.45	.60/1.10	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN8M	.35/.45	.90/1.30	.25 Max	.12/20	.06 Max	-	-	-	-	-	-	-	-	-
EN8AM	.33/.38	.80/1.30	.25 Max	12/.20	.06 Max	-	-	-	-	-	-	-	-	-
EN8BM	.35/.40	.90/1.30	.25 Max	12/.20	.06 Max	-	-	-	-	-	-	-	-	-
EN8CM	.38/.43	.90/1.30	.25 Max	12/.20	.06 Max	-	-	-	-	-	-	-	-	-
EN8DM	.40/.45	.90/1.30	.25 Max	12/.20	.06 Max	-	-	-	-	-	-	-	-	-
EN9	.50/.60	.50/.80	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN9K	.50/.60	.50/.80	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN10	.50/.60	.50/.80	.05/.35	.06 Max	.06 Max	-	.50/.80	-	-	-	-	-	-	-
EN11	.50/.70	.50/.80	.10/.35	.05 Max	.05 Max	.50/.80	-	-	-	-	-	-	-	-
EN12	.30/.45	1.50 Max	.10/.35	.05 Max	.05 Max	-	.60/1.00	-	-	-	-	-	-	-
EN12A	.30/.35	.70/.90	.10/.35	.05 Max	.05 Max	-	.60/1.00	-	-	-	-	-	-	-
EN12B	.35/.40	.70/.90	.10/.35	.05 Max	.05 Max	-	.60/1.00	-	-	-	-	-	-	-
EN12C	.40/.45	.70/.90	.10/.35	.05 Max	.05 Max	-	.60/1.00	-	-	-	-	-	-	-
EN13	.15/.25	1.4/1.8	.10/.35	.05 Max	.05 Max	-	.40/.70	.15/.35	-	-	-	-	-	-
EN14A	.15/.25	1.3/1.7	.10/.35	.05 Max	.05 Max	.25 Max	.40 Max	-	-	-	-	-	-	-
EN14A/1	.23 Max	1.2 Min	.10/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN14B	.20/.30	1.3/1.70	.10/.35	.06 Max	.06 Max	-	.40 Max	-	-	-	-	-	-	-
EN15	.30/.40	1.30/1.70	.10/.35	.40 Max	.40 Max	-	-	-	-	-	-	-	-	-
EN15A	.30/.40	1.3/1.7	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN15AM	.30/.40	1.3/1.7	.25 Max	.12/.20	.06 Max	-	-	-	-	-	-	-	-	-
EN15B	.35/.40	1.3/1.7	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
EN16	.30/.40	1.3/1.8	.10/.35	.05 Max	.05 Max	-	-	.20/.35	-	-	-	-	-	-
EN16A	.25/.35	1.3/1.8	.10/.35	.05 Max	.05 Max	-	-	.20/.35	-	-	-	-	-	-
EN16B	.30/.35	1.3/1.8	.10/.35	.05 Max	.05 Max	-	-	.20/.35	-	-	-	-	-	-
EN16C	.35/.40	1.3/1.8	.10/.35	.05 Max	.05 Max	-	-	.20/.35	-	-	-	-	-	-
EN16D	.25/.35	1.3/1.8	.10/.35	.05 Max	.05 Max	-	-	.20/.35	-	-	-	-	-	-
EN16M	.30/.40	1.3/1.8	.25 Max	.12/.20	.05 Max	-	-	.20/.35	-	-	-	-	-	-
EN17	.30/.40	1.3/1.8	.10/.35	.05 Max	.05 Max	-	-	.35/.55	-	-	-	-	-	-
EN18	.35/.45	.60/.95	.10/.35	.05 Max	.05 Max	.85/1.15	-	-	-	-	-	-	-	-
EN18A	.27/.32	.65/.80	.10/.35	.05 Max	.05 Max	.85/1.15	-	-	-	-	-	-	-	-
EN18B	.30/.35	.65/.80	.10/.35	.05 Max	.05 Max	.85/1.15	-	-	-	-	-	-	-	-
EN18C	.35/.38	.65/.80	.10/.35	.05 Max	.05 Max	.85/1.15	-	-	-	-	-	-	-	-
EN18D	.38/.43	.65/.80	.10/.35	.05 Max	.05 Max	.85/1.15	-	-	-	-	-	-	-	-
EN19	.35/.45	.50/.80	.10/.35	.05 Max	.05 Max	.90/1.50	-	.20/.40	-	-	-	-	-	-
EN19A	.35/.45	.50/.80	.10/.35	.05 Max	.05 Max	.90/1.20	-	.20/35	-	-	-	-	-	-
EN19B	.35/.45	.50/.80	.10/.35	.05 Max	.05 Max	.90/1.20	-	.20/35	-	-	-	-	-	-
EN19C	.45/.50	.50/.80	.10/.35	.05 Max	.05 Max	.90/1.20	-	.20/35	-	-	-	-	-	-
EN20A	.20/.30	.40/.70	.10/.35	.05 Max	.05 Max	.50/1.0	-	.50/.80	-	-	-	-	-	-
EN20B	.35/.45	.40/.70	.10/.35	.05 Max	.05 Max	.50/.90	-	1.00/1.50	-	-	-	-	-	-
EN21	.25/.35	.35/.75	.10/.35	.05 Max	.05 Max	-	2.75/3.25	.30 Max	-	-	-	-	-	-
EN21A	.20/.30	.60 Max	.10/.35	.05 Max	.05 Max	-	2.5/3.5		-	-	-	-	-	-
EN22	.35/.45	.50/.80	.10/.35	.05 Max	.05 Max	-	3.25/3.75	.30 Max	-	-	-	-	-	-
EN23	.25/.35	.45/.70	.10/.35	.05 Max	.05 Max	.65 OPT	2.75/3.50	.50/1.0	-	-	-	-	-	-
EN24	.35/.45	.45/.70	.10/.35	.05 Max	.05 Max	.90/1.40	1.3/1.8	.20/.35	-	-	-	-	-	-
EN25	.27/.35	.5/.7	.10/.35	.05 Max	.05 Max	.50/.80	2.3/2.8	.40/.70	-	-	-	-	-	-
EN26	.36/.44	.5/.7	.10/.35	.05 Max	.05 Max	.50/.80	2.3/2.8	.40/.70	-	-	-	-	-	-
EN27	.25/.35	.70 Max	.10/.35	.05 Max	.05 Max	.50/1.30	3.0/3.75	.20/.65	-	-	-	-	-	-
EN28	.25/40	.70 Max	.10/.35	.05 Max	.05 Max	.75/1.5	3.0/4.5	.20/.65	-	-	-	-	-	-
EN29A	.15/.35	.65 Max	.10/.35	.05 Max	.05 Max	2.5/3.5	.40 Max	.30/.70	-	-	-	-	-	-
EN29B	.25/.35	.65 Max	.10/.35	.05 Max	.05 Max	2.5/3.5	.40 Max	.30/.40	-	-	-	-	-	-
EN30A	.26/.34	.40/.60	.10/.35	.05 Max	.05 Max	1.1/1.4	3.9/4.3	-	-	-	-	-	-	-
EN30B	.26/.34	.40/.60	.10/.35	.05 Max	.05 Max	1.1/1.4	3.9/4.3	.20/.40	-	-	-	-	-	-
EN31	.90/1.20	.30/.75	.10/.35	.05 Max	.05 Max	1.0/1.6	-	-	-	-	-	-	-	-
EN32A	.15 Max	.40/.70	.10/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN32B	.10/.18	.70/1.10	.05/.35	.07 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN32M	.10/.18	.90/1.20	.05/.35	.10/.15	.05 Max	-	-	-	-	-	-	-	-	-
EN33	.10/.15	.30/.60	.10/.35	.05 Max	.05 Max	.30 Max	2.75/3.5	-	-	-	-	-	-	-
EN34	.14/.20	.30/.60	.10/.35	.05 Max	.05 Max	-	1.5/2.0	.20/.30	-	-	-	-	-	-
EN35	.20/.28	.30/.60	.10/.35	.05 Max	.05 Max	-	1.5/2.0	.20/.30	-	-	-	-	-	-
EN35A	.20/.25	.30/.60	.10/.35	.05 Max	.05 Max	-	1.5/2.0	.20/.30	-	-	-	-	-	-
EN35B	.23/.28	.30/.60	.10/.35	.05 Max	.05 Max	-	1.5/2.0	.20/.30	-	-	-	-	-	-
EN36A	.15 Max	.30/.60	.10/.35	.05 Max	.05 Max	.60/1.1	3/3.75	-	-	-	-	-	-	-
EN36B	.12/.18	.30/.60	.10/.35	.05 Max	.05 Max	.60/1.1	3/3.75	-	-	-	-	-	-	-
EN36C	.12/.18	.30/.60	.10/.35	.05 Max	.05 Max	.60/1.1	3/3.75	.10/.25	-	-	-	-	-	-
EN37	.16 Max	.45 Max	.10/.35	.05 Max	.05 Max	.30 Max	4.5/5.2	-	-	-	-	-	-	-
EN38	.16 Max	.60 Max	.10/.35	.05 Max	.05 Max	.30 Max	4.5/5.2	.15/.30	-	-	-	-	-	-
EN39A	.12/.18	.50 Max	.10/.35	.05 Max	.05 Max	1.0/1.4	3.8/4.5	-	-	-	-	-	-	-
EN39B	.12/.18	.50 Max	.10/.35	.05 Max	.05 Max	1.0/1.4	3.8/4.5	.15/.35	-	-	-	-	-	-
EN40A	.10/.20	.40/.65	.10/.35	.05 Max	.05 Max	2.9/3.5	.40 Max	.40/.70	-	-	-	-	-	-
EN40B	.20/.30	.40/.65	.10/.35	.05 Max	.05 Max	2.9/3.5	.40 Max	.40/.70	-	-	-	-	-	-
EN40C	.30/.50	.40/.80	.10/.35	.05 Max	.05 Max	2.5/3.5	.40 Max	.70/1.2	.10/.30	-	-	-	-	-
EN41A	.25/.35	.65 Max	.10/.45	.05 Max	.05 Max	1.4/1.8	.40 Max	.10/.25	-	-	-	-	-	-
EN41B	.35/.45	.65 Max	.10/.45	.05 Max	.05 Max	1.4/1.8	.40 Max	.10/25	-	-	-	-	-	-
EN42	.70/.85	.55/.75	.10/.40	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN42B	.60/.70	.55/.80	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN42C	.70/.80	.55/.80	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN42D	.80/.90	.55/.80	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN42E	.60/.75	.30/.60	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN42F	.60/.75	.60/.90	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN42G	.75/.90	.30/.60	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN42J	.75/.90	.60/.90	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43	.45/.60	.60/.80	.10/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43A	.45/.55	.70/1.0	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43B	.45/.50	.70/1.0	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43C	.50/.55	.70/1.0	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43D	.60/.65	.40/.60	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43E	.65/.70	.70/.90	.30 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43G	.45/.60	.30/.60	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN43J	.45/.60	.60/.90	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN44	.90/1.2	.45/.70	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN44B	.90/1.0	.40/.70	.35 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN44C	1.0/1.2	.40/.70	.30 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN44D	.90/1.05	.30/.70	.30 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN44E	1.05/1.25	.30/.70	.30 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN45	.50/.60	.70/1.10	1.5/2.0	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN45A	.55/.65	.70/1.00	1.7/2.0	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN46	.35/.45	.70/1.10	1.5/2.0	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN47	.45/.55	.50/.80	.50 Max	.05 Max	.05 Max	.80/1.20	-	-	.15 Min	-	-	-	-	-
EN48	.45/.55	.50/1.00	.10/.50	.05 Max	.05 Max	1.0/1.4	-	-	-	-	-	-	-	-
EN48A	.50/.60	.60/.90	1.35/1.65	.05 Max	.05 Max	.55/.85	-	-	-	-	-	-	-	-
EN49A	.45/.85	1.0 Max	.30 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN49B	.45/.85	1.0 Max	.30 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN49C	.55/.85	.75 Max	.30 Max	.04 Max	.04 Max	-	-	-	-	-	-	-	-	-
EN49D	.65/.85	.75 Max	.30 Max	.04 Max	.04 Max	-	-	-	-	-	-	-	-	-
EN50	.45/.50	.50/.70	.10/.35	.05 Max	.05 Max	1.0/1.5	-	-	.15 Min	-	-	-	-	-
EN51	.25/.35	.35/.75	.10/.35	.05 Max	.05 Max	.30 Max	2.75/3.25	-	-	-	-	-	-	-
EN52	.40/.50	.30/.60	3.0/3.75	.06 Max	.06 Max	7.5/9.5	.50 Max	-	-	-	-	-	-	-
EN53	.55/.65	.30/.60	1.4/1.7	.06 Max	.06 Max	5.75.6.75	.50 Max	-	-	-	-	-	-	-
EN54	.35/.50	1.50 Max	1.0/2.5	.04 Max	.04 Max	.12/16	10	-	-	.2/4	-	-	-	-
EN54A	.37/.47	.50/.80	1.0/2.0	.045 Max	.045 Max	13/15	13/15	.40/60	-	2.2/3	-	-	-	-
EN55	.18/.45	1.0 Max	1.0/2.5	.045 Max	.045 Max	17 Min	.6/12	-	-	.2/4	-	-	-	-
EN56A	.12 Max	1.0 Max	1.0 Max	.045 Max	.045 Max	.12/14	1.0 Max	-	-	-	-	-	-	-
EN56B	.12/.18	1.0 Max	1.0 Max	.045 Max	.045 Max	.12/14	1.0 Max	-	-	-	-	-	-	-
EN56C	.18/.25	1.0 Max	1.0 Max	.045 Max	.045 Max	.12/14	1.0 Max	-	-	-	-	-	-	-
EN56D	.25/.35	1.0 Max	1.0 Max	.045 Max	.045 Max	.12/14	1.0 Max	-	-	-	-	-	-	-
EN56AM	.12 Max	1.5 Max	1.0 Max	-	-	.12/14	1.0 Max	-	-	-	-	0.6	-	-
EN56BM	.12/.18	1.5 Max	1.0 Max	-	-	.12/14	1.0 Max	-	-	-	-	-	0.35	0.6
EN56CM	.18/.25	1.5 Max	1.0 Max	-	-	.12/14	1.0 Max	0.6	-	-	-	-	-	-
EN56DM	.25/.35	1.5 Max	1.0 Max	0.75	.05 Max	.12/14	1.0 Max	-	-	-	-	-	-	-
EN57	.25 Max	1.0 Max	1.0 Max	.05 Max	.05 Max	15.5/20	.1/3	-	-	-	-	-	-	-
EN58A	.16 Max	2.0 Max	.20 Min	.05 Max	.05 Max	.17/20	.7/10	-	-	-	-	-	-	-
EN58B	.15 Max	2.0 Max	.20 Min	.045 Max	.045 Max	.17/20	.7/10	-	-	-	-	-	-	-
EN58C	.15 Max	2.0 Max	.20 Min	.045 Max	.045 Max	.17/20	.9/12	-	-	-	-	-	-	-
EN58D	.16 Max	2.0 Max	.20 Min	.045 Max	.045 Max	.11/.14	.11/.14	-	-	-	-	-	-	-
EN58E	.08 Max	2.0 Max	.20 Min	.045 Max	.045 Max	17.5/20	.8/11	-	-	-	-	-	-	-
EN58F	.15 Max	2.0 Max	.20 Min	.045 Max	.045 Max	.17/20	.7/10	-	-	-	-	-	-	-
EN58G	.15 Max	2.0 Max	.20 Min	.045 Max	.045 Max	.17/20	.9/12	-	-	-	-	-	-	-
EN58H	.12 Max	2.0 Max	.20 Min	.045 Max	.045 Max	.17/20	.8/12	1.5/2.5	-	-	-	-	-	-

EN58J	.12 Max	2.0 Max	.20 Min	.045 Max	.045 Max	.17/20	.8/12	2.5/3.5	-	-	-	-	-	-
EN59	.74/.84	.20/.60	1.75/2.25	.03 Max	.03 Max	19/20.5	1.5/1.65	-	-	-	-	-	-	-
EN60	.12 Max	1.0 Max	1.0 Max	.045 Max	.045 Max	.16/18	.5 Max	-	-	-	-	-	-	-
EN61	.12 Max	1.0 Max	1.0 Max	.045 Max	.045 Max	.20/22	.5 Max	-	-	-	-	-	-	-
EN100	.35/.45	1.2/1.5	.50 Max	.05 Max	.05 Max	.30/.60	.50/1.0	.15/.25	-	-	-	-	-	-
EN100A	.25/.30	1.2/1.5	.10/.50	.05 Max	.05 Max	.30/.60	.50/1.0	.15/.25	-	-	-	-	-	-
EN100B	.30/.35	1.2/1.5	.10/.50	.05 Max	.05 Max	.30/.60	.50/1.0	.15/.25	-	-	-	-	-	-
EN100C	.35/.40	1.2/1.5	.10/.50	.05 Max	.05 Max	.30/.60	.50/1.0	.15/.25	-	-	-	-	-	-
EN100D	.40/.45	1.2/1.5	.10/.50	.05 Max	.05 Max	.30/.60	.50/1.0	.15/.25	-	-	-	-	-	-
EN110	.35/.45	.40/.80	.10/.35	.05 Max	.05 Max	.90/1.4	1.2/1.60	.10/.20	-	-	-	-	-	-
EN111	.30/.40	.60/.90	.10/.35	.05 Max	.05 Max	.45/.75	1.0/1.5	-	-	-	-	-	-	-
EN111A	.33/.38	.60/.90	.10/.35	.05 Max	.05 Max	.45/.75	1.0/1.5	-	-	-	-	-	-	-
EN160	.35/.45	.30/.60	.10/.35	.05 Max	.05 Max	-	1.5/2.0	.20/.35	-	-	-	-	-	-
EN160A	.38/.43	.30/.60	.10/.35	.05 Max	.05 Max	-	1.5/2.0	.20/.35	-	-	-	-	-	-
EN201	.18 Max	1.1/1.5	.05/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
EN202	.18 Max	1.2/1.5	.05/.35	.10/.18	.05 Max	-	-	-	-	-	-	-	-	-
EN206	.12/.17	.30/.50	.10/.35	.05 Max	.05 Max	.30/.50	-	-	-	-	-	-	-	-
EN207	.16/.21	.60/.80	.10/.35	.05 Max	.05 Max	.60/.80	-	-	-	-	-	-	-	-
EN325	.22 Max	.45/.65	.10/.35	.05 Max	.05 Max	.40/.60	1.5/2.0	.20/.30	-	-	-	-	-	-
EN351	.20 Max	.60/1.0	.35 Max	.05 Max	.05 Max	.40/.80	.60/1.0	.10 Max	-	-	-	-	-	-
EN352	.20 Max	.50/1.0	.35 Max	.05 Max	.05 Max	.60/1.0	.85/1.25	.10 Max	-	-	-	-	-	-
EN353	.20 Max	.50/1.0	.35 Max	.05 Max	.05 Max	.75/1.25	1.0/1.5	.08/.15	-	-	-	-	-	-
EN354	.20 Max	.50/1.0	.35 Max	.05 Max	.05 Max	.75/1.25	1.5/2.0	.10/.20	-	-	-	-	-	-
EN355	.20 Max	.40/.70	.35 Max	.05 Max	.05 Max	1.4/1.7	1.8/2.2	.15/.25	-	-	-	-	-	-
EN361	.13/.17	.70/1.0	.35 Max	.05 Max	.05 Max	.55/.80	.4/.7	.08/.15	-	-	-	-	-	-
EN362	.18/.23	.70/1.0	.35 Max	.05 Max	.05 Max	.55/.80	.40/.70	.08/.15	-	-	-	-	-	-
EN363	.22/.26	.70/1.0	.35 Max	.05 Max	.05 Max	.55/.80	.40/.70	.08/.15	-	-	-	-	-	-
SA-105	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE-1015	.10/.18	.40/.70	.15/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
SAE-1018	.15/.25	.40/.60	.10 Max	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
SAE-1020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAE-1023	.25 Max	1.0 Max	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
SAE-1030	.25/.35	.60/1.0	.05/.35	.06 Max	.06 Max	-	-	-	-	-	-	-	-	-
SAE-1045	.40/.50	.60/.90	.30 Max	.30 Max	.30 Max	-	-	-	-	-	-	-	-	-
SAE-1064	.60/.70	.50/.80	.30 Max	.30 Max	.30 Max	-	-	-	-	-	-	-	-	-
SAE-4140	.35/.45	.50/.80	.10/.35	.04 Max	.04 Max	.90/1.50	-	.20/.40	-	-	-	-	-	-
SAE-4150	.48/.53	.75/1.00	.15/.35	.040 Max	.040 Max	.80/1.10	-	.15/.25	-	-	-	-	-	-
SAE-4320	.17/.22	.45/.65	.20/.35	.040 Max	.040 Max	.40/.60	1.65/2.00	.20/.30	-	-	-	-	-	-
SAE-4340	.35/.45	.45/.70	.10/.35	0.4 Max	0.4 Max	.90/1.40	1.30/1.80	.20/.35	-	-	-	-	-	-
SAE-52100	.95/1.10	.25/.45	.20/.35	.25 Max	.25 Max	1.30/1.60	-	-	-	-	-	-	-	-
C20	.15/.25	.60/.90	.15/.35	.050 Max	.050 Max	-	-	-	-	-	-	-	-	-
C35	.30/.40	.60/.90	.15/.35	.050 Max	.050 Max	-	-	-	-	-	-	-	-	-
C40	.35/.45	.60/.90	.15/.35	.050 Max	.050 Max	-	-	-	-	-	-	-	-	-
C45	.40/.50	.60/.90	.15/.35	.050 Max	.050 Max	-	-	-	-	-	-	-	-	-
C50	.45/.55	.60/.90	.15/.35	.050 Max	.050 Max	-	-	-	-	-	-	-	-	-
C60	.55/.65	.50/.80	.15/.35	.050 Max	.050 Max	-	-	-	-	-	-	-	-	-
CK45	.40/.50	.60/.90	.15/.35	.050 Max	.050 Max	-	-	-	-	-	-	-	-	-
20C8	.01/.18	.6/.01	0.5/.35	.05 Max	.05 Max	-	-	-	-	-	-	-	-	-
40C8	.35/.45	.60/.90	.10/.35	-	-	-	-	-	-	-	-	-	-	-
45C8	.40/.50	.60/.90	.10/.35	-	-	-	-	-	-	-	-	-	-	-
55C8	.50/.60	.60/.90	.10/.35	-	-	-	-	-	-	-	-	-	-	-
16Mncr5	.14/.19	1.00/1.30	.10/.35	.040 Max	.040 Max	.80/1.10	-	-	-	-	-	-	-	-
20Mncr5	.17/.22	1.00/1.40	.10/.35	.04 Max	.04 Max	1.00/1.30	-	-	-	-	-	-	-	-
SCM420	.18/.23	.60/.90	.15/.35	.30 Max	.30 Max	.90/1.20	0.00/0.25	0.15/0.25	-	-	-	-	-	-
ASTM SA-36	.25/.29	0.00/0.0103	0.00/0.028	.50 Max	.40 Max	-	-	-	-	-	-	-	-	-
ASTM SA-105	.00/.35	0.60/1.05	0.10/0.35	.4 Max	.35 Max	0.3 Max	0.4 Max	0.12 Max	-	-	-	-	-	-
HCHCR	1.50/1.60	0.15/0.45	0.10/0.40	-	-	11.00/12.00	-	0.60/0.80	0.90/1.10	-	-	-	-	-
D2	1.55/1.75	.20/.40	0.25/0.40	-	-	11.00/12.00	-	0.50/0.70	.10/.50	.40/.60	-	-	-	-
D3	1.90/2.20	.15/.35	0.10/0.40	-	-	11.00/12.00	-	0.80 Opt	0.80 Opt	0.75 Opt	-	-	-	-
D6	2.10/2.30	.20/.40	1.0 approx	-	-	11.00/13.00	-	-	-	.90/1.10	-	-	-	-
H-11	0.32/0.42	0.80/1.20	.50 Max	-	-	4.50/5.50	-	1.00/1.50	.30/.50	-	-	-	-	-
H-13	0.32/0.42	0.80/1.20	.50 Max	-	-	4.50/5.50	-	1.00/1.50	.80/1.20	-	-	-	-	-
H-14	.30/.40	.20/.40	.10/.35	-	-	3.00/3.75	-	-	.30/.50	8.75/10.00	-	-	-	-
H-21	0.25/0.35	.40 Max	.60 Max	-	-	2.00/3.00	-	-	0.30/0.50	9.00/10.00	-	-	-	-
CW-1	.85/.95	1.25/1.75	.10/.35	-	-	.30/.60	-	-	.25 Max (Opt	.40/.60	-	-	-	-
OHNS	0.95	1	-	-	-	0.5	-	-	0.1	0.5	-	-	-	-
M2	0.80/0.90	.40 Max	.40 Max	-	-	3.80/4.50	-	4.50/5.50	1.60/2.20	5.50/6.70	-	-	-	-
M35	0.80/0.90	.40 Max	.40 Max	-	-	3.80/4.50	-	4.80/6.20	1.70/2.30	5.50/6.70	4.50/5.50	-	-	-
M42	1.00/1.15	.50 Max	.40 Max	-	-	3.50/4.50	-	9.00/10.00	0.90/1.40	1.20/1.90	7.50/8.50	-	-	-
Din-1.2714	0.50/0.60	0.60/0.90	0.10/0.40	0.02	0.03	0.80/1.20	1.50/1.80	0.35/.0.55	0.05/0.15	-	-	-	-	-
SKD-11	1.55/1.75	0.20/0.40	0.25/0.40	-	-	11.00/12.00	-	0.50/0.70	0.10/0.50	0.40/0.60	-	-	-	-
P20	0.35/0.45	0.20/0.40	1.30/1.60	-	-	1.80/2.10	-	0.15/0.25	-	-	-	-	-	-
P20+S	0.35/0.45	0.30/0.50	1.40/1.60	-	-	1.80/2.00	-	0.15/0.25	-	-	-	-	-	-
P20+ni	0.35/0.45	0.20/0.40	1.30/1.60	-	-	1.80/2.10	-	0.15/0.25	-	-	-	-	-	-
S355J2G3	0.22/0.02	1.60/0.04	0.55/0.03	0.05/0.035	0.05/0.035	0.30/0.05	0.30/0.05	0.08/0.03	-	-	-	-	-	-