

ASTM A387 GR.2 (S50460)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.05-0.21	0.55-0.80	0.025	0.025	0.15-0.40	0.050-0.80	0.45-0.60
Product	0.04-0.21	0.50-0.88	0.025	0.025	0.13-0.45	0.46-0.85	0.40-0.65

ASTM A387 GR.12 (K11757)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.05-0.17	0.40-0.65	0.025	0.025	0.15-0.40	0.80-1.15	0.45-0.60
Product	0.04-0.17	0.35-0.73	0.025	0.025	0.13-0.45	0.74-1.21	0.40-0.65

ASTM A387 GR. 11(K11789)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.05-0.17	0.40-0.65	0.025	0.025	0.50-0.80	1.00-1.50	0.45-0.65
Product	0.04-0.17	0.35-0.73	0.025	0.025	0.44-0.86	0.94-1.56	0.40-0.70

ASTM A387 GR.22 (K21590)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.05-0.15	0.30-0.60	0.025	0.025	0.50 max	2.00-2.50	0.90-1.10
Product	0.04-0.15	0.25-0.66	0.025	0.025	0.50 max	1.88-2.62	0.85-1.15

ASTM A387 GR.22 L (K21590)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.10 max	0.30-0.60	0.025	0.025	0.50 max	2.00-2.50	0.90-1.10
Product	0.12 max	0.25-0.66	0.025	0.025	0.50 max	1.88-2.62	0.85-1.15

ASTM A387 GR.21 (K31545)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.05-0.15	0.30-0.60	0.025	0.025	0.50 max	2.75-3.25	0.90-1.10
Product	0.04-0.15	0.25-0.66	0.025	0.025	0.50 max	0.90-1.10	0.85-1.15

ASTM A387 GR.21 L (K31545)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.10 max	0.30-0.60	0.025	0.025	0.50 max	2.75-3.25	0.90-1.10
Product	0.10 max	0.25-0.66	0.025	0.025	0.50 max	0.85-1.15	0.85-1.15

ASTM A387 GR. 5 (S50200)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.15 max	0.30-0.60	0.025	0.025	0.50 max	4.00-6.00	0.45-0.65
Product	0.15 max	0.25-0.66	0.025	0.025	0.50 max	3.90-6.10	0.40-0.70

ASTM A387 GR. 9 (K90941)

Elements	C	Ma	P	S	Si	Cr	Mo	V
Heat	0.15 max	0.30-0.60	0.025	0.025	1.00 max	8.00-10.00	0.90-1.10	0.04 max
Product	0.15 max	0.25-0.66	0.025	0.025	1.05 max	7.90-10.10	0.85-1.15	0.05 max

ASTM A387 GR. 91 (K90901)

Elements	C	Ma	P	S	Si	Cr	Mo
Heat	0.08-0.12	0.30-0.60	0.02	0.010	0.20-0.50	8.00-9.50	0.85-1.05
Product	0.06-0.15	0.25-0.66	0.025	0.012	0.18-0.56	7.90-9.60	0.80-1.10

Elements	Ni	V	Co	N	Al	Ti	Z
Heat	0.40	0.18-0.25	0.06-0.10	0.030-0.070	0.02	0.01	0.01
Product	0.43	0.16-0.27	0.05-0.11	0.025-0.080	0.02	0.01	0.01

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