



NOMINAL SPECIFICATION DATA SHEET FOR
HMP (5S) ALLOY

Alloy specification	EN29453 S-Pb93Sn5Ag2	J-STD-006 Sn05Pb94Ag1	BS219 Grade 5S
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Solidus	296°C	296°C	296°C
Liquidus	301°C	301°C	301°C

Alloy Composition

Tin	4.8-5.2	4.8-5.2	4.75-5.25
Lead	Remainder	Remainder	Remainder
Arsenic (max)	0.03	0.03	0.03
Bismuth (max)	0.1	0.1	0.01
Iron (max)	0.02	0.02	0.02
Copper (max)	0.05	0.08	0.05
Aluminium (max)	0.001	0.005	0.001
Cadmium (max)	0.002	0.002	0.005
Zinc (max)	0.001	0.003	0.003
Antimony (max)	0.10	0.20	0.10
Gold (max)	0.005	0.005	0.005
Nickel (max)	0.005	0.005	0.005
Silver	1.4-1.6	1.3-1.7	1.4-1.6

BS219 is an obsolete specification. Our alloys are now manufactured to EN29453.