

NOMINAL SPECIFICATION DATA SHEET FOR
HMP (5S) ALLOY

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|----------------------------|--|----------------------------------|---------------------------|
| Alloy specification | EN29453 S-Pb93Sn5Ag2 (Alloy 34) | 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.