THE FEDERAL METAL CO.

# Bismuth Brass (% Max. unless shown as range or min.)

| Family | Alloy | Cu% | Sn% | Pb% | Zn% | Fe% | Sb% | Ni% | S% | P% | Al% | Mn% | Si% | Bi% | Others |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bismuth Brass | C89320 | 87.0-91.0[H] | 5.0-7.0 | 0.09 | 1.0 | 0.20 | 0.35 | 1.0 | 0.08 | 0.30 | 0.005 | | 0.005 | 4.0-6.0 | – |
| | C89325 | 84.0-88.0 | 9.0-11.0 | 0.10 | 1.00 | 0.15 | 0.50 | 1.0 | 0.08 | 0.10 | 0.005 | – | 0.005 | 2.7-3.7 | – |
| | C89510 | 86.0-88.0[H] | 4.0-6.0 | 0.10 | 4.0-6.0 | 0.30 | 0.25 | 1.0 | 0.08 | 0.05 | 0.005 | – | 0.005 | 0.5-1.5[J] | Se[I]0.35-0.75 |
| | C89520 | 85.0-87.0[H] | 4.0-6.0 | 0.10 | 4.0-6.0 | 0.30 | 0.25 | 1.0 | 0.08 | 0.05 | 0.005 | – | 0.005 | 1.6-2.2[J] | Se[K]0.8-1.1 |
| | C89530 | 84.0-89.0[L] | 3.5-6.0 | 0.10 | 7.0-9.0 | 0.30 | 0.20 | 1.0 | – | 0.05 | 0.01 | – | 0.01 | 1.0-2.0 | Se 0.10-0.30 |
| | C89535 | 84.0-89.0[L] | 2.5-5.5 | 0.10 | 5.0-9.0 | 0.30 | 0.20 | 0.30-1.0 | – | 0.10-0.40 | 0.010 | – | 0.010 | 0.8-2.0 | Se 0.5 |
| | C89540 | 58.0-64.0[H] | 1.2 | 0.10 | 32.0-38.0 | 0.50 | – | 1.0 | – | – | 0.10-0.60 | – | – | 0.6-1.2 | Se 0.10 |
| | C89831 | 87.0-91.0 | 2.7-3.7 | 0.10 | 2.0-4.0 | 1.00 | 0.25 | 1.0 | 0.08 | 0.05 | 0.300 | – | 0.005 | 2.7-3.7 | – |
| | C89833 | 87.0-91.0 | 4.0-6.0 | 0.09 | 2.0-4.0 | 0.30 | 0.25 | 1.0 | 0.08 | 0.05 | 0.005 | – | 0.005 | 1.7-2.7 | – |
| | C89835 | 85.0-89.0 | 6.0-7.5 | 0.10 | 2.0-4.0 | 0.20 | 0.35 | 1.0 | 0.08 | 0.10 | 0.005 | – | 0.005 | 1.7-2.7 | – |
| | C89836 | 87.0-91.0[H] | 4.5-7.0 | 0.10 | 2.0-4.0 | 0.35 | 0.25 | 0.90 | 0.08 | 0.06 | 0.005 | – | 0.005 | 1.5-2.5 | – |
| | C89837 | 84.0-88.0 | 3.0-4.0 | 0.10 | 6.0-10.0 | 0.30 | 0.25 | 1.0 | 0.08 | 0.05 | 0.005 | – | 0.005 | 0.7-1.2 | – |
| | C89844 | 83.0-86.0[B,C] | 3.0-5.0 | 0.10 | 7.0-10.0 | 0.30 | 0.25 | 1.0 | 0.08 | 0.05 | 0.005 | – | 0.005 | 0.7-1.2 | – |



[B] In determining Cu minimum, can be calculated as Cu + Ni.
[C] Cu + sum of named elements, 99.3%.
[H] Total named elements = 99.5% min.