

Cutech Alloys Private Limited

France - NFA53

| Aluminium Bronze 709 | | | | | | | | | | | | | |
|----------------------|-----|-----|------|-----|-------|-------|---|----------|-----|-----|----|---|------------|
| Copper Alloys | Cu | Sn | Pb | Zn | Fe | Ni | P | Al | Mn | Si | Sb | S | Impurities |
| CuAl10Fe3 | Rem | 0.2 | 0.05 | 0.5 | 2-4 | 1.5 | | 8.5-11 | 3 | 0.2 | | | 0.8 |
| CuAl110Fe5Ni5 | Rem | 0.2 | 0.05 | 0.5 | 3-5.5 | 4-6.5 | | 8.5-11 | 1.5 | 0.1 | | | 0.8 |
| CuAl12Fe5Ni5 | Rem | 0.2 | 0.05 | 0.5 | 3-6 | 4-6 | | 10.5-12 | 1.5 | 0.2 | | | 0.8 |
| CuAl9 | Rem | | | | 1.2 | 1 | | 8.5-10.5 | 0.5 | | | | 0.5 |
| CuAl9Ni3Fe2 | Rem | 0.2 | 0.05 | 0.5 | 1-3 | 1.5-4 | | 8.5-10.5 | 1.5 | 0.2 | | | 0.8 |

| Tin Bronze 707 | | | | | | | | | | | | | |
|----------------|----------|----------|-------|----|------|-----|----------|------|----|------|----|------|------------|
| Copper Alloys | Cu | Sn | Pb | Zn | Fe | Ni | P | Al | Mn | Si | Sb | S | Impurities |
| CuSn12 | Rem | 10.5-13 | 25 | 2 | 0.25 | 2 | 0.3 | 0.01 | | 0.01 | | 0.05 | 0.5 |
| CuSn12P | Rem | 11-13 | 1 | 1 | 0.2 | 2 | 0.05-0.4 | 0.01 | | 0.01 | | 0.05 | 1.2 |
| CuSn14 | 83.5 Min | 12.5 Min | | 1 | | | | | | 0.01 | | | 1.5 |
| CuSn8 | Rem | 7-9 | 0.5-3 | 3 | 0.2 | 1.5 | | 0.01 | | 0.01 | | 0.1 | 1 |

| Gun Metal 707 | | | | | | | | | | | | | |
|---------------|-----|-------|-----|------|-----|-----|---|------|----|------|----|-----|------------|
| Copper Alloys | Cu | Sn | Pb | Zn | Fe | Ni | P | Al | Mn | Si | Sb | S | Impurities |
| CuSn3Zn9Pb7 | Rem | 2-3.5 | 6-8 | 7-10 | 0.3 | 1.5 | | 0.01 | | 0.01 | | 0.1 | 1 |
| CuSn5Pb5Zn5 | Rem | 4-6 | 4-6 | 4-6 | 0.3 | 1.5 | | 0.01 | | 0.01 | | 0.1 | 1 |
| CuSn7Pb6Zn4 | Rem | 6-8 | 5-7 | 2-5 | 0.2 | 1.5 | | 0.01 | | 0.01 | | 0.1 | 1 |

| Leaded Bronze | | | | | | | | | | | | | |
|---------------|-----|------|-------|----|------|-----|-----|------|----|------|----|---|------------|
| Copper Alloys | Cu | Sn | Pb | Zn | Fe | Ni | P | Al | Mn | Si | Sb | S | Impurities |
| CuPb20Sn5 | Rem | 4-6 | 18-23 | 2 | 0.25 | 2.5 | | 0.01 | | 0.01 | | | 1 |
| CuSn10Pb10 | Rem | 9-11 | 8-11 | 2 | 0.25 | 2 | 0.3 | 0.01 | | 0.01 | | | 1 |

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| Brass 703 | | | | | | | | | | | | | |
|---------------|-------|-----|-------|-----|-----|-----|------|---------|-----|------|----|---|------------|
| Copper Alloys | Cu | Sn | Pb | Zn | Fe | Ni | P | Al | Mn | Si | Sb | S | Impurities |
| CuZn33PbY20 | 65-70 | 0.8 | 1.8 | Rem | 0.5 | 0.5 | 0.05 | 0.1 | 0.2 | 0.05 | | | |
| CuZn40Y30 | 59-63 | 0.7 | 0.5-2 | Rem | 0.5 | 0.8 | | 0.2-0.8 | 0.5 | 0.05 | | | |
| CuZn40Y40 | 59-63 | 0.7 | 0.5-2 | Rem | 0.5 | 0.8 | | 0.2 | 0.5 | 0.2 | | | |

| High Tensile Brass 703 | | | | | | | | | | | | | |
|------------------------|-------|-----|-----|-------|-------|-----|---|-------|---------|----|----|---|------------|
| Copper Alloys | Cu | Sn | Pb | Zn | Fe | Ni | P | Al | Mn | Si | Sb | S | Impurities |
| CuZn19A16Y20 | 60-66 | 0.1 | 0.1 | 18-25 | 2-3 | 1 | | 5-7.5 | 2.5-4 | | | | |
| CuZn23Al4Y20 | 60-66 | 0.2 | 0.2 | 20-27 | 1.5-3 | 2.5 | | 3-5 | 2.5-4.5 | | | | |
| CuZn30AlFeMnY40 | 59-67 | 0.3 | 1.5 | Rem | 0.5-2 | 2.5 | | 1-2.5 | 1-3.5 | 1 | | | |



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