| **Series (AA)\*** | **Alloying Constituents** | **Metal Properties** | **Coating Properties** | **Uses** | **Non-A.Q.\*\* Types** | **Finishing Advice** |
| --- | --- | --- | --- | --- | --- | --- |
| 1xxx | None | soft, conductive | clear, bright | cans, architectural | 1100, 1175 | Care should be taken when racking this soft material; Good for bright coatings; Susceptible to etch staining |
| 2xxx | Copper | very strong, hard, low elongation | yellow, poor protection | aircraft, mechanical | 2011, 2017, 2219, 2224 | Since copper content is >2%, these produce yellow, poor weather-resistant coatings; Don't mix with other alloys on load |
| 3xxx | Manganese | strong, small grains | grayish-brown | cans, architectural, lighting | 3003, 3004 | Difficult to match sheet-to-sheet (varying degrees of gray/brown); Used extensively for lighting |
| 4xxx | Silicon | strong, fluid | dark gray | architectural, welding wire | 4043, 4343 | - |
| 5xxx | Magnesium | strong, ductile, fluid | clear, good protection | architectural, welding wire, lighting | 5052, 5252 | Ror 5005-keep silicon<0.1% and magnesium between 0.7% and 0.9%; Watch for oxide streaks; 5005 used extensively for architectural |
| 6xxx | Magnesium & Silicon | strong, ductile | clear, good protection | architectural, structural | 6061, 6101 | Matte-iron>0.2%; bright-iron<0.1%; 6063 best match for 5005; 6463 best for chemical brightening |
| 7xxx | Zinc | very strong | clear, good protection | automotive | 7029, 7046, 7075 | - |