1.0 % ≤ Si ≤ 1.5 %,
Fe max. 0.50 %,
Cu max. 0.20 %,
Mn max. 0.20 %,
0.25 % ≤ Mg ≤ 0.6%,
Cr max. 0.10 %,
Zn max. 0.20 %,
Ti max. 0.15 %,
residual Al and unavoidable impurities: individually max. 0.05 wt.%, in total max. 0.15 wt.%.

All three aluminium alloys EN AW 6060, EN AW 6063 and EN AW 6016 are characterised by moderate to low Mg contents, low upper limits for copper and manganese contents, as well as moderate iron contents. The properties with regard to the thermal and electrical conductivity of the aluminium alloys also in the artificially aged state as well as the mechanical properties necessary in relation to the use as electrical connections of components of an electrical circuit or of semiconductor components are attributed to the selected combination of these alloying elements.

Although no measurements of the aluminium alloy type EN AW 6060 regarding the electrical/thermal conductivity in the artificially aged state have previously been performed, it is assumed that due to the alloy composition, values are achieved which are similarly good compared to the values presented below for the aluminium alloy of type EN AW 6063 and EN AW 6016.

All measurements mentioned were performed in accordance with the relevant EN standard.

The aluminium alloy of type EN AW 6016 has, in comparison to the aluminium alloy of type EN AW 6063, a surplus of silicon and can therefore provide higher strengths than the aluminium alloy of type EN AW 6063, for example in state T6.