

Identification of Aluminum Alloys

ALUMINUM ALLOY IDENTIFICATION SYSTEM

4-digit series Composition The letter indicates the primary treatment and/or condition The first digit indicates the secondary treatment performed to determine the properties

The digit that follows the designations H1, H2 and H3 will indicate the final degree of hardness achieved, which is identified by the minimum value of tensile strength (hardness). The following three figures after the letter H are used for all forgeable alloys. , indicates a variant of a two-digit state

1XXX 99% pure F: Manufacturing Raw 1: Cold rolled only (Acridity) 1:

2XXX Cu O: Annealed 2: Cold Rolled (Hardenedness) Partially Annealed 2: 1/4 Hard

3XXX Mn H: Laminated (cold deformation or acridity) 3: Cold laminated (Acridity) stabilized 4: 1/2 hard

H111: Applied to semi-products that after final annealing maintain a hardening due to cold deformation that prevents them from being classified as annealed (o) state.

4XXX Yes T: Structural hardening heat treatment 1: Treat. of temper from the temp. extrusion and mad.natural 6: 3/4 hard

5XXX Mg 2: Annealed (cast products only) 8: Hard

H114: Applies to engraved or stamped plates and bands

6XXX Mg + Si 3: Solid dissolution + cold deformation (Acridity) 9: Extra Hard

7XXX Zn + Mg 4: Solution heat treatment + natural maturation

8XXX Other 5: Artificial ripening only

6: Solution, tempering and artificial ripening

7: Solution, tempering and over-ripening/stabilization

8: Solution, tempering, acrimony and artificial ripening

9: Solution, tempering, artificial ripening and pungency

