

DIN EN 1706:2020-06 (E)

Aluminium and aluminium alloys - Castings - Chemical composition and mechanical properties

Contents		Page
European foreword		3
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Ordering information	8
5	Designation systems	8
5.1	Numerical designation system	8
5.2	Chemical symbol based designation system	8
5.3	Temper designations	8
5.4	Casting process designations	9
5.5	Designations to be included in drawings	9
6	Chemical composition	9
6.1	General	9
6.2	Samples for chemical analysis	9
7	Mechanical properties	15
7.1	General	15
7.2	Tensile tests	19
7.3	Test pieces	19
7.3.1	General	19
7.3.2	Separately cast test samples	19
7.3.3	Test pieces taken from castings	20
7.4	Hardness tests	21
8	Rounding rules for determination of compliance	21
Annex A(informative) Mechanical properties of high pressure die cast alloys		22
Annex B(informative) Potentially achievable mechanical properties of test pieces taken from a casting		23
Annex C(informative) Comparison of casting characteristics, mechanical and other properties		25
Annex D(informative) Comparison between cast aluminium alloy designations		34
Bibliography		36