

ISO 2107:2023-09 (E)

Aluminium and aluminium alloys - Wrought products - Temper designations

| Contents | | Page |
|-----------------|--|-------------|
| | Foreword | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Basic temper designations | 2 |
| 4.1 | F — as fabricated..... | 2 |
| 4.2 | O — annealed..... | 3 |
| 4.3 | H — strain-hardened..... | 3 |
| 4.4 | W — solution heat-treated..... | 3 |
| 4.5 | T — precipitation hardened to produce stable tempers other than F, O or H..... | 3 |
| 5 | Subdivisions of O temper designations | 3 |
| 5.1 | 01 — high-temperature annealed to accentuate ultrasonic response and provide dimensional stability..... | 3 |
| 5.2 | 03 — homogenized..... | 3 |
| 6 | Subdivisions of H temper designations | 4 |
| 6.1 | General..... | 4 |
| 6.2 | First digit after H..... | 4 |
| 6.3 | Second digit after H..... | 4 |
| 6.4 | Third digit after H..... | 5 |
| 6.5 | Other digits after H..... | 6 |
| 7 | Subdivisions of T temper designations | 6 |
| 7.1 | First digits (numerals 1 to 10) after T..... | 6 |
| 7.2 | Additional digits added to designations T1 to T10..... | 8 |
| 7.3 | Assigned additional digits for stress-relieved T tempers..... | 8 |
| 7.3.1 | Stress-relieved by stretching..... | 8 |
| 7.3.2 | Stress relieved by compressing..... | 9 |
| 7.3.3 | Stress relieved by combined stretching and compressing..... | 9 |
| 7.4 | Assigned additional digits for stress-relieved W tempers..... | 9 |
| 7.5 | Assigned additional digits for variations of T7 type tempers..... | 9 |
| 7.6 | Assigned additional digits for producer/supplier demonstration tempers and purchaser/user processed tempers..... | 10 |
| 7.6.1 | Temper designations for producer/supplier — Laboratory demonstration of response to heat treatment..... | 10 |
| 7.6.2 | Temper designations for producer/supplier — Demonstration of response to temper conversion..... | 10 |
| 7.6.3 | Temper designations for purchaser/user heat treatment..... | 11 |
| | Annex A (informative) Common, regionally applied temper designations and descriptions | 12 |