

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ADDENDUM 1 TO ISO RECOMMENDATION R 827-1968

MECHANICAL PROPERTY LIMITS FOR EXTRUDED PRODUCTS
OF ALUMINIUM AND ALUMINIUM ALLOYS

1st EDITION

August 1971

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BRIEF HISTORY

The Addendum 1 to ISO Recommendation R 827, *Mechanical property limits for extruded products of aluminium and aluminium alloys*, was drawn up by Technical Committee ISO/TC 79, *Light metals and their alloys*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question led to the adoption of Draft ISO Recommendation No. 2129, which was circulated to all the ISO Member Bodies for enquiry in October 1970. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Austria	Italy	Sweden
Belgium	Netherlands	Switzerland
Canada	New Zealand	Thailand
Finland	Norway	Turkey
France	Poland	U.A.R.
Germany	Portugal	United Kingdom
India	South Africa Rep. of	U.S.A.
Israel	Spain	U.S.S.R.

The following Member Body opposed the approval of the Draft :

Japan

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as ADDENDUM 1 to ISO Recommendation R 827-1968.

Addendum 1 — August 1971 — to ISO Recommendation R 827-1968

**MECHANICAL PROPERTY LIMITS FOR EXTRUDED PRODUCTS
OF ALUMINIUM AND ALUMINIUM ALLOYS**

SCOPE

This Addendum 1 to ISO Recommendation R 827-1968 comprises the addition to the table of section 3 of the alloy Al-Zn 6 Mg Cu and its mechanical properties.

MECHANICAL PROPERTY LIMITS

Grade or alloy	Condition	Thickness		R_c (0.2) min.		R_m min.		A min. on $5.65\sqrt{S_0}$ 50 mm (2 in.)	
		millimetres	inches	kgf/mm ²	1000 lbf/in ²	kgf/mm ²	1000 lbf/in ²	%	%
Al-Zn 6 Mg Cu	Solution heated and precipitation treated for maximum tensile strength	up to 6	up to 0.25	48.0	68.0	53.5	76.0	7	7
		6 to 12	0.25 to 0.5	50.0	71.0	55.5	79.0	7	7
		12 to 38	0.5 to 1.5	49.0	70.0	55.5	79.0	7	7
		38 to 75	1.5 to 3.0	48.5	69.0	55.0	78.0	6	7