

Table 1.

Room temperature properties of
intermetallics determined in this
testing program.

		Cu_6Sn_5	Cu_3Sn	Ni_3Sn_4
Vickers Hardness	Kg/mm^2	378 +/- 55	343 +/- 47	365 +/- 7
Toughness	$\text{MPa}\sqrt{\text{m}}$	1.4 +/- 0.3	1.7 +/- 0.3	1.2 +/- 0.1
Youngs Modulus	GPa	85.56 +/- 1.65	108.3 +/- 4.4	133.3 +/- 5.6
Poisson's Ratio		0.309 +/- 0.012	0.299 +/- 0.018	0.330 +/- 0.015
Thermal Expansion	PPM/C	16.3 +/- 0.3	19.0 +/- 0.3	13.7 +/- 0.3
Thermal Diffusivity	cm^2/sec	0.145 +/- 0.015	0.240 +/- 0.024	0.083 +/- 0.008
Heat Capacity	J/gram/deg	0.286 +/- 0.012	0.326 +/- 0.012	0.272 +/- 0.012
Resistivity	micro ohm-cm	17.5 +/- 0.1	8.93 +/- 0.10	28.5 +/- 0.1
Density	gm/cc	8.28 +/- 0.02	8.90 +/- 0.02	8.65 +/- 0.02
Thermal Conductivity	$\frac{\text{watt}}{\text{cm-deg}}$	0.341 +/- 0.051	0.704 +/- 0.098	0.196 +/- 0.019

Mechanical Props Of Intermetallic Compou

Jack Hall Westbrook



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Mechanical Properties of Intermetallic Compounds Symp Mechanical Properties Of Intermetallic Compounds, Electrochemical Society, 1960 **Mechanical Properties of Intermetallic Compounds** Jack Hall Westbrook, 1960 Mechanical Properties of Intermetallic Compounds Jack Hall Westbrook, 1960 **Nuclear Science Abstracts**, 1973 **Nuclear Power Reactor Instrumentation Systems Handbook** Joseph M. Harrer, James G. Beckerley, 1973 **Handbook of Lead-Free Solder Technology for Microelectronic Assemblies** Karl J. Puttlitz, Kathleen A. Stalter, 2004-02-27 This reference provides a complete discussion of the conversion from standard lead tin to lead free solder microelectronic assemblies for low end and high end applications Written by more than 45 world class researchers and practitioners the book discusses general reliability issues concerning microelectronic assemblies as well as factors specif

Mechanical Properties of Intermetallic Compounds †-LiAl and †-LiIn Tsung-Shiew Huang, 1984

Metallography: Principles of metallography Samuel Leslie Hoyt, 1920 *Principles of metallography* Samuel Leslie Hoyt, 1920 Metallography Samuel Leslie Hoyt, 1920 Intermetallic Compounds, Structural Applications of J. H. Westbrook, R. L. Fleischer, 2000-06-15 This volume is one of four each of which consists of reprinted chapters from the highly acclaimed comprehensive two volume set *Intermetallic Compounds Principles and Practice* published in 1995 In some cases the author or authors have added a brief addendum to bring their chapter up to date and in other cases more recent references have been added Chapters have been selected and grouped in subject areas to provide more easily accessible and user friendly volumes for individual researchers The other titles in this four volume set are *Crystal Structures of Intermetallic Compounds* *Basic Mechanical Properties and Lattice Defects of Intermetallic Compounds* *Magnetic Electrical and Optical Properties and Applications of Intermetallic Compounds* **Transactions** Faraday Society, 1929 **Transactions of the Faraday Society** Faraday Society, 1929 Intermetallic Compounds: Principles Jack Hall Westbrook, Robert Louis Fleischer, 1995 *Principles of Metallography* Robert Seaton Williams, Victor Oliver Homerberg, 1928 Light Metals 2016 Edward Williams, 2016-12-20 The Light Metals symposia are a key part of the TMS Annual Meeting Exhibition presenting the most recent developments discoveries and practices in primary aluminum science and technology Publishing the proceedings from these important symposia the Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2016 collection includes papers from the following symposia 1 Alumina and Bauxite 2 Aluminum Alloys Processing and Characterization 3 Aluminum Reduction Technology 4 Cast Shop Technology 5 Electrode Technology 6 Strip Casting **Light Metals 2016** The Minerals, Metals & Materials Society (TMS), 2016-02-09 The 2016 collection will include papers from the following symposia Alumina and Bauxite Aluminum Alloys Processing and Characterization Aluminum Reduction Technology Cast Shop Technology Electrode Technology Strip Casting

Mechanical Properties Of Complex Intermetallics Esther Belin-ferre, 2010-11-22 This book will be the last one in a

series of 4 books issued yearly as a deliverable of the research school established within the European Network of Excellence CMA for Complex Metallic Alloys It is written by reputed experts in the fields of metal physics surface physics and chemistry metallurgy and process engineering combining expertise found inside as well as outside the network The CMA network focuses on the huge group of largely unknown multinary alloys and compounds formed with crystal structures based on giant unit cells containing clusters with many tens up to more than thousand atoms per unit cell In these phases for many phenomena the physical length scales are substantially smaller than the unit cell dimension Hence these materials offer unique combinations of properties which are mutually excluded in conventional materials metallic electric conductivity combined with low thermal conductivity combination of good light absorption with high temperature stability combination of high metallic hardness with reduced wetting by liquids electrical and thermal resistance tuneable by composition variation excellent resistance to corrosion reduced cold welding and adhesion enhanced hydrogen storage capacity and light absorption etc The series of books will concentrate on development of fundamental knowledge with the aim of understanding materials phenomena technologies associated with the production transformation and processing of knowledge based multifunctional materials surface engineering support for new materials development and new knowledge based higher performance materials for macro scale applications

Intermetallic Compounds Mahmood Aliofkhazraei, 2018-05-30 Intermetallic compounds are usually brittle with high melting points Their properties are often found among ceramic and metallic materials In most cases their hot corrosion resistance and simultaneously hardness are important One of the main applications of intermetallic compounds is for superalloy turbine blades in which they show appropriate high temperature related properties This book collects new developments about intermetallic compounds and their recent usages

Advanced Engineering Technology III Jong Wan Hu, Sung Whan Kim, 2017-06-02 Selected peer reviewed papers from the 3rd International Conference on Advanced Engineering and Technology ICAET 2016 December 16 18 2016 Incheon South Korea

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