



The following are selected resources for solid state welding of superalloys.

PAPER TITLE	AUTHOR(S)	SOURCE	LINK
"Preliminary Investigations of Joining Technologies for Attaching Refractory Metals to Ni-Based Superalloys"	J. E. Gould, F. J. Ritzert and W. S. Loewenthal	Space Technology and Applications International Forum (STAIF-2006), Albuquerque, NM, United States, 12-16 Feb. 2006	<a href="#">Acquire Report</a>
"Techniques Investigated to Join Advanced Materials for Future Space Exploration Missions"	F. J. Ritzert	Research & Technology 2005, NASA/TM-2006-214016, 149-150	<a href="#">Acquire Report</a>
"Reaction Zones Associated With Joining Ni-Based Superalloys to Refractory Metals Studied"	I. E. Locci, J. A. Nesbitt, F. J. Ritzert	Research & Technology 2005, NASA/TM-2006-214016, 146-148	<a href="#">Acquire Report</a>
"Mixed Inconel® Alloy 718 Inertia Welds for Rotating Applications—Microstructures and Mechanical Properties"	O. Roder, D. Helm, S. Neft, J. Albrecht, and G. Luetjering	Superalloys 718, 625, 706, and Various Derivatives (2005), TMS, 2005, p. 699	<a href="#">Acquire the Article</a>
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"A New Method to Diffusion Bond Superalloys"	A.A. Shirzadi and E. R. Wallach	"International Conference on Microstructure and Performance of Joints in High-Temperature Alloys." Institute of Materials, Mining and Materials. London. 20 November 2002.	<a href="#">Read the Full Article</a>
"Inertia Friction Welding of Nickel Base Superalloys for Aerospace Applications"	G. Baxter, M. Preuss and P. J. Withers	"International Conference on Microstructure and Performance of Joints in High-Temperature Alloys." Institute of Materials, Mining and Materials. London. 20 November 2002.	<a href="#">Read the Full Article</a>
"Inertia Friction Welding of Nickel Base Superalloys for Aerospace Applications (presentation)"	G. Baxter, M. Preuss and P. J. Withers	"International Conference on Microstructure and Performance of Joints in High-Temperature Alloys." Institute of Materials, Mining and Materials. London. 20 November 2002.	<a href="#">View Presentation</a>
"Inertia Welding Nickel-Based Superalloy: Part I. Metallurgical Characterization"	M. Preuss, J.W.L. Pang, P.J. Withers, and G.J. Baxter	Metallurgical and Materials Transactions A, 33A, October 2002, p. 3215	<a href="#">Acquire the Article</a>
"Inertia Welding Nickel-Based Superalloy: Part II. Residual Stress Characterization"	M. Preuss, J.W.L. Pang, P.J. Withers, and G.J. Baxter	Metallurgical and Materials Transactions A, 33A, October 2002, p. 3227	<a href="#">Acquire the Article</a>
"Microstructural Study and Numerical Simulation of Inertia Friction Welding of Astroloy"	M. Soucaill, A. Moal, L. Nazé, E. Massoni, C. Levaillant, and Y. Bienvenu	Superalloys 1992, Warrendale, PA: TMS, 1992, p. 847-856	<a href="#">Read the Full Article</a>
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