

The following are selected readings for superalloy disc alloys reviewed by an advisory group of TMS subject matter experts



PAPER TITLE	AUTHOR(S)	SOURCE	MORE
"Ni-Based Superalloys for Turbine Discs"	<i>David Furrer and Hans Fecht</i>	JOM, January 1999	Read the Full Article
"The Initial Years of Alloy 718 – A GE Perspective"	<i>J. F. Barker</i>	Proceedings of the International Symposium of Superalloy 718, TMS, 1989	Read the Full Article
"Stress Relaxation in Powder Metallurgy Superalloy Disks"	<i>T.P. Gabb, J. Telesman, P.T. Kantzos, P.J. Bonacuse, R.L. Barrie, and D.J. Hornbach</i>	TMS Letters, Issue 5	Read the Full Article
"The Effect of Dual Microstructure Heat Treatment on an Advanced Nickel-Base Disk Alloy"	<i>J. Gayda, T.P. Gabb, and P.T. Kantzos</i>	Superalloys 2004, Warrendale, PA: TMS, 2004, p. 323-330	Acquire this Paper
"Effects of Microstructure on the High Temperature Constitutive Behavior of IN100"	<i>W.W. Milligan, E.L. Orth, J.J. Shirra, and M.F. Savage</i>	Superalloys 2004, Warrendale, PA: TMS, 2004, p. 331-340	Acquire this Paper
Effect of Microstructure (and Heat Treatment) on the 649°C Properties of Advanced P/M Superalloy Disk Materials	<i>J.J. Schirra, P.L Reynolds, E.S. Huron, K.R. Bain, and D.P. Mourer</i>	Superalloys 2004, Warrendale, PA: TMS, 2004, p. 341-350	Acquire this Paper
"Process Development and Mechanical Properties of Alloy U720Li for High Temperature Turbine Disks"	<i>R. Couturier, H. Burllet, S. Terzi, S. Dubiez, L. Guetaz, and G. Raisson</i>	Superalloys 2004, Warrendale, PA: TMS, 2004, p. 351-360	Acquire this Paper
"Ageing Characterization of the Powder Metallurgy Superalloy N18"	<i>B. Flageolet, P. Villechaise, M. Jouiad, and J. Mendez</i>	Superalloys 2004, Warrendale, PA: TMS, p. 371-380	Acquire this Paper
"Dual Heat Treat Process Development for Advanced Disk Applications"	<i>D.P. Mourer and J.L. Williams</i>	Superalloys 2004, Warrendale, PA: TMS, 2004, p. 401-408	Acquire this Paper
"The Microstructure Prediction of Alloy 720LI for Turbine Disk Applications"	<i>T. Matsui, H. Takizawa, H. Kikuchi and S. Wakita</i>	Superalloys 2000, Warrendale, PA: TMS, 2000, p. 127-133	Read the Full Article
"Characteristics and Properties of As-HIP P/M Alloy 720"	<i>J.H. Moll and J.J. Conway</i>	Superalloys 2000, Warrendale, PA: TMS, 2000, p. 135-141	Read the Full Article
"Optimisation of the Mechanical Properties of a New PM Superalloy for Disk Applications"	<i>D. Locq, M. Marty and P. Caron</i>	Superalloys 2000, Warrendale, PA: TMS, 2000, p. 395-403	Read the Full Article
"γ' Formation in a Nickel-Base Disk Superalloy"	<i>T.P. Gabb, D.G. Backman, D.Y. Wei, D.P. Mourer, D. Furrer, A. Garg and D.L. Ellis</i>	Superalloys 2000, Warrendale, PA: TMS, p. 405-414	Read the Full Article
"Simulation of Microstructure of Nickel-Base Alloy 706 in Production of Power Generation Turbine Disks"	<i>J. Huez and J.F. Uginet</i>	Superalloys 2000, Warrendale, PA: TMS, p. 477-484	Read the Full Article
"The Development of Improved Performance PM UDIMET® 720 Turbine Disks"	<i>S.K. Jain, B.A. Ewing and C.A. Yin</i>	Superalloys 2000, Warrendale, PA: TMS, p. 785-794	Read the Full Article