Typical Wrought Superalloys

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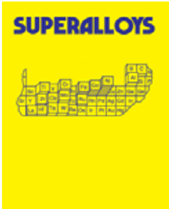

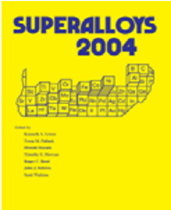

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proc. Int. Symp. on Superalloys 2000, TMS, Warrendale PA, 2000

proc. Int. Symp. on Superalloys 2004, TMS, Warrendale PA, 2004

ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
720LI		Precipitation-hardened wrought alloy. Has also been made as P/M alloy - see Courturier et. al. in Superalloys 2004 reference to the right.	Disc alloy		Sub-Solvus Recrystallization Mechanisms in UDIMET® Alloy 720LI [pp. 59-68] B. Lindsley and X. Pierron Quench Cracking Characterization of Superalloys Using Fracture Mechanics Approach [pp. 109-116] J. Mao, K.M. Chang and D. The Microstructure Prediction of Alloy 720LI for Turbine Disk Applications [pp. 127-133] T. Matsui, H. Takizawa, H. Kikuchi and S. Wakita Microstructure and Mechanical Property Development in Superalloy U720LI [pp. 415-424] D.U. Furrer and H.J. Fecht Influence of Long Term Exposure in Air on Microstructure, Surface Stability and Mechanical Properties of UDIMET 720LI [pp. 487-493] D. Helm and O. Roder Effects of Grain and Precipitate Size Variation on Creep-Fatigue Behaviour of UDIMET 720LI in Both Air and Vacuum [pp. 495-503] N.J. Hide, M.B. Henderson and P.A. S. Reed	Process Development and Mechanical Properties of Alloy U720LI for High Temperature Turbine Disks [pp. 351-360] R Couturier, H Burlet,S Terzi, SDubiez, L Guetaz, G Raisson Characterisation of gamma' across inertia friction welded Alloy 720Li [pp. 477- 484] M. Preuss, J. Quinta da Fonseca, I. Kyriakoglou, P.J. Withers, G.J. Baxter
A-286	S66286	Fe-Ni-Cr wrought alloy with additions of Mo & Ti. Age-hardenable. Maintains strength & oxidation resistance to 700°C.	Blades, vanes, chafts, tail cones, afterburners, springs and fasteners. Also for automotive applications	Special Metals		

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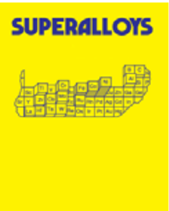

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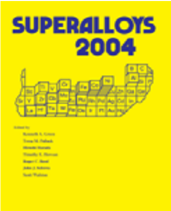

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
Alloy 901	N09901	Ni-Fe-Cr wrought alloy with additions of Mo, Ti and Al. For service up to 600°C.	discs and shafts for gas turbines	Special Metals Carpenter		
Allvac 718Plus	N07818	Wrought, precipitation-hardened nickel-base alloy. Has high temperature capability & thermal stability of Waspaloy with the processing characteristics of 718		Allvac		Role of Chemistry in 718-Type Alloys—Allvac®718Plus™ Alloy Development [pp. 91-100] W-D. Cao and R. Kennedy
Astroloy	N13017	Ni-Co-Cr-Mo precipitation Hardened alloy	Gas turbine hot section components	Allvac		Recovery and Recrystallization After Critical Strain in the Nickel-Based Superalloy René 88DT [pp. 391-400] D.D. Whitis
C263		Wrought Alloy.			Isothermal and Thermomechanical Fatigue of Superalloy C263 [pp. 545-552] Y.H. Zhang and D.M. Knowles	
C-276	N10276	Ni-Mo-Cr-W alloy with excellent corrosion resistance & good fabricability. Directionlly solidified.	chemical & petrochemical processing applications in the as-welded condition	Haynes International Carpenter		
Hastelloy B	N10001	Low thermal expansion, Limited oxidation/corrosion resistance	Older gas turbine & Rocket engines	Haynes International		
Hastelloy S	N06635	Low thermal expansion, Hot & cold-workable	For severely cyclical heating conditions, low stress gas turbine engine parts, excellent dissimilar filler metal	Haynes International		
Hastelloy W	N10004	Filler metal for welding	For welding dissimilar high-temperature alloys, for engine repair & maintenance Also ring-type applications in older gas turbine engines	Haynes International		

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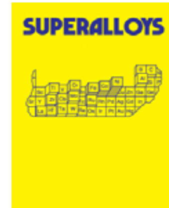

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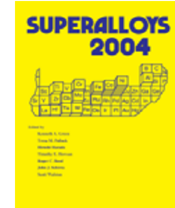

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
Hastelloy X	N06002	Ni-Cr-Fe-Mo alloy excellent forming & welding, good ductility after elevated temperature exposure	Aircraft, marine & industrial gas turbine engine combustors	Haynes International		Hold-Time Effects on Low-Cycle Fatigue Behavior of Hastelloy X Superalloy at High Temperature [pp. 241-250] Y. L. Lu, L. J. Chen*, G.Y. Wang, M. L. Benson, and P. K. Liaw
Haynes 188	R30188	Co-Ni-Cr-W alloy, Readily fabricated	combustion cans, transition ducts and afterburner components of military & commercial gas turbine engines	Haynes International		
Haynes 214	N07214	Ni-Cr-Al-Fe alloy, Conventional fabricating	Honeycomb seals, Flamehoods,belts & Burner assemblies	Haynes International		
Haynes 230	N06230	Ni-Cr-W-Mo alloy Low thermal expansion, Hot & cold-formable	Combustion cans, transition ducts, flameholders, thermo-couple sheaths	Haynes International	High Temperature Low-Cycle Fatigue Behavior of Haynes® 230® Superalloy [pp. 573-581] L.J. Chen, Y.H. He, P.K. Liaw, J.W. Blust, P.F. Browning, R.R. Seeleyand D.L. Klarstrom	
Haynes 242	N10242	Ni-Mo-Cr alloy, Low thermal expansion, Hot & cold formable	Seal rings, containment Rings, duct segments, casings, Fasteners, rocket nozzles, pumps	Haynes International	Structure/Property Interactions in a Long Range Order Strengthened Superalloy [pp. 553-562] M.F. Rothman, D.L. Klarstrom, M. Dollar and J.F. Radavich The Ductility of Haynes® 242™ Alloy as a Function of Temperature, Strain Rate and Environment [pp. 609-618] S.D. Antolovich, D.L. Klarstrom and J.F. Radavich	
Incoloy 909	N19909	Ni-Fe-Co-Si-Nb-Ti alloy, Low thermal expansion Constant modulus of elasticity	Gas turbine casings, shrouds, Vanes and shafts	Special Metals		Thermal Stability of Inconel Alloy 783 at 593°C and 704°C [pp. 627-636] Sarwan K. Mannan, Gaylord D. Smith, Shailesh J. Patel
Incoloy MA956	S67956	Fe-Cr-Al alloy w/ yttrium oxide Strengthening. NO LONGER PRODUCED	Gas turbine combustion chambers, energy-conversion systems, rigorous service	Special Metals		

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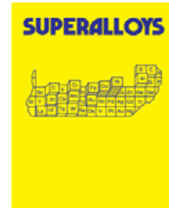

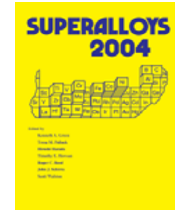

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
Inconel 100		Wrought Alloy	high pressure turbine disk in gas turbine engine			The Effect of Partial Vacuum on the Fatigue Crack Growth of Nickel Base Superalloys [pp. 233-239] Andrew H. Rosenberger Crystallographic Initiation of Nickel-Base Superalloy IN100 at RT and 538°C Under Low Cycle Fatigue Conditions [pp. 251-258] K. Li , N.E. Ashbaugh , and A.H. Rosenberger The Effects of Microstructure on the High Temperature Constitutive Behavior of IN100 [pp. 331-340] W.W. Milligan, E.L. Orth, J.J. Schirra, M.F. Savage Computer Simulations for the Prediction of Microstructure/Property Variation in Aeroturbine Disks [pp. 877-886] Herng-Jeng Jou , Peter Voorhees , Gregory B. Olson
Inconel 600	N06600	Wrought Ni-Cr alloy with good oxidation and corrosion resistance.	furnace components, in chemical and food processing, in nuclear engineering, for sparking electrodes	Special Metals Carpenter Allvac		
Inconel 601	N06601	Wrought Ni-Cr alloy with Al additions for enhanced oxidation and corrosion resistance.	industrial furnaces, heat treating equipment, petrochemical & other process equipment, gas-turbine components	Special Metals		
Inconel 625	N06625	Wrought Ni-Cr-Mo alloy with Nb additions for increased strength and corrosion resistance.	chemical processing, aerospace & marine engineering, pollution-control equipment and nuclear reactors	Special Metals	Segregation and Solid Evolution during the Solidification of Niobium-Containing Superalloys [pp. 75-84] W. Yang, W. Chen, K.M. Chang, S. Mannan and J. deBarbadillo	

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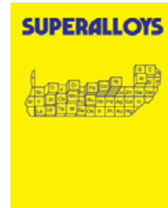

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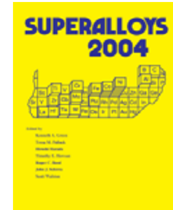

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
Inconel 706	N09706	Wrought Ni-Fe-Cr precipitation hardened alloy with good fabricability.	aerospace & land base gas turbine parts	Special Metals	Segregation and Solid Evolution during the Solidification of Niobium-Containing Superalloys [pp. 75-84] W. Yang, W. Chen, K.M. Chang, S. Mannan and J. deBarbadillo Long Term Thermal Stability of INCONEL Alloys 718, 706, 909 and WASPALOY at 593°C and 704°C [pp. 449-458] S. Mannan, S. Patel and J. deBarbadillo Simulation of Microstructure of Nickel-Base Alloy 706 in Production of Power Generation Turbine Disks [pp. 477-484] J. Huez and J.F. Uginet	
Inconel 718	N07718	precipitation strengthened Ni based superalloy, good oxidation and creep resistance up to 650°C, high strength and fatigue resistance	components for gas turbine (discs), liquid-fueled rockets, high temperature plant and cryogenic systems	Special Metals	Sub-Solvus Recrystallization Mechanisms in UDIMET® Alloy 720LI [pp. 59-68] B. Lindsley and X. Pierron	Role of Chemistry in 718-Type Alloys—Allvac®718Plus™ Alloy Development [pp. 91-100] W-D. Cao and R. Kennedy
				Carpenter	Predicting Grain Size Evolution of UDIMET® Alloy 718 during the "Cogging" Process through Use of Numerical Analysis [pp. 39-47] B. F. Antolovich and M.D. Evans	Effect of Boron Concentration on Fatigue Crack Propagation Resistance and Low Cycle Fatigue Properties of Inconel 718 [pp. 275-282] L. Xiao, D.L. Chen, and M.C. Chaturvedi
				Haynes	Segregation and Solid Evolution during the Solidification of Niobium-Containing Superalloys [pp. 75-84] W. Yang, W. Chen, K.M. Chang, S. Mannan and J. deBarbadillo	Modeling and Measurement of Residual Stresses in a Forged IN718 Superalloy Disc [pp. 315-322] D. Dye, B.A. Roder, S.Tin, M.A> Rist, J.A. James, and M.R. Daymond

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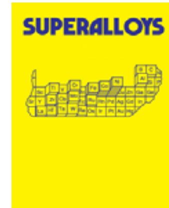

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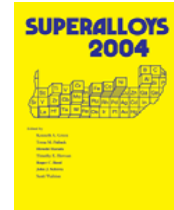

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
				Allvac	Properties of RS5 and Other Superalloys Cast Using Thermally Controlled Solidification [pp. 161-170] M.L. Gambone, S.B. Shendye, P. Andrews, W. Chen, M.N. Gungor, J.J. Valencia, and M.L. Tims	Superalloy Lattice Block Structures [pp. 431-440] M.V. Nathal, J.D. Whittenberger, M.G. Hesbur, P.T. Kantzos, and D.L. Krause
					Effect of Oxidation on High Temperature Fatigue Crack Initiation and Short Crack Growth in Inconel 718 [pp. 435-444] T. Connolley, M.J. Starink and P.A. S. Reed	Microstructure, Macrostructure, and Modelling of the Centrifugal Spray Deposition of Large Diameter Ni Superalloy Preforms [pp. 563-570] M.D. Basrratt, Z. Shi, R.M. Ward, P.S. Grant, M.H. Jacobs
					The Effects of Processing on Stability of Alloy 718 [pp. 445-448] G. Shen, J. Radavich, X. Xie and B. Lindsley	Modeling of Vacuum Arc Remelting of Alloy 718 Ingots [pp. 917-924] A.D. Patel, R.S. Minisandram, and D.G. Evans
					Long Term Thermal Stability of INCONEL Alloys 718, 706, 909 and WASPALOY at 593°C and 704°C [pp. 449-458] S. Mannan, S. Patel and J. deBarbadillo	
Inconel 783	R30783	Low thermal expansion alloy designed for high strength, good oxidation resistance and higher temperature capability with respect to the 900 series alloys.	Gas turbine and steam turbine components	Special Metals	Effect of Thermomechanical Processing on Fatigue Crack Propagation in INCONEL Alloy 783 [pp. 601-608] L.Z. Ma, K.M. Chang, S.K. Mannan and S.J. Patel	Thermal Stability of Inconel Alloy 783 at 593°C and 704°C [pp. 627-636] Sarwan K. Mannan, Gaylord D. Smith, Shailesh J. Patel
						Environmental Behavior of Low Thermal Expansion Inconel Alloy 783 [pp. 643-656] Eric A. Ott, Jon R. Groh, and Sarwan K. Mannan
Inconel MA754	N07754	Includes yttrium oxide strengthening. NO LONGER PRODUCED	Extreme service applications.	Special Metals		

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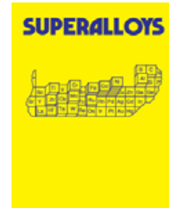

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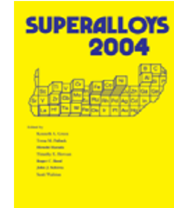

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
Nimonic 75	N06075	Ni-Cr-Ti-C alloy, for sheet applications	Gas turbine engines, components of industrial furnaces, heat treating equipment & fixtures, in nuclear engineering	Special Metals		
Nimonic 80A	N07080	Like Nimonic 75 but with Al and Ti for greater strength	blades, rings & discs for gas turbines; bolts & tube supports in nuclear steam generators; die casting inserts & cores; exhaust valves in internal-combustion engines	Special Metals		An Innovative Device for the Mechanical Testing of Miniature Specimens of Superalloys [pp. 523-528] B Roebuck1, D C Cox and R C Reed
Nimonic 90	N07090	Ni-Cr-Co-Ti-Al alloy	blades & discs for gas turbines, hot-working tools and springs	Special Metals		
RA 333	N06333	High Cr, nickel-base superalloy resistant to high temperature oxidation, carbutization and thermal shock.	dampers and refractory anchors in 13%SO2/SO3 at 1800°F, for refinery flare tips	Rolled Alloys		
Rene 41	N07041	precipitation-hardened wrought nickel-base superalloy with high strength and good oxidation resistance	afterburner parts and nozzle diaphragm partitions in gas turbine engines, turbine blades and wheels, combustion chamber liners and structural hardware	Haynes Carpenter Allvac Special Metals		
Rene 88DT		advanced high strength powder metallurgy Ni based superalloy, good creep and fatigue crack growth resistance	rotating compressor and turbine disks		Control of Grain Size Via Forging Strain Rate Limits for R'88DT [pp. 49-58] E. Huron, S. Srivatsa and E. Raymond , Quench Cracking Characterization of Superalloys Using Fracture Mechanics Approach [pp. 109-116] J. Mao, K.M. Chang and D. Furrer	Deformation Mechanisms at Intermediate Creep Temperatures in Rene88 DT [pp. 173-178] G.B. Viswanathan, P. Sarosi, M. henry, D. Whitis, and M. Mills Development of Ultrasonic Fatigue for Rapid, High Temperature Fatigue Studies in Turbine Engine Materials [pp. 259-268] A. Shyam, C.J. Torbet, S.K. Jha, J.M. Larsen, M.J. Caton, C.J. Szczepanski, T.M. Pollock, and J.W. Jones

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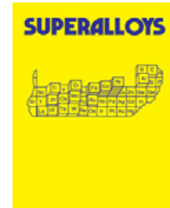

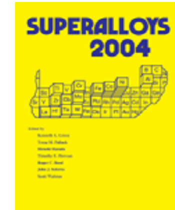

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
						Divergence of Mechanisms and the Effect on the Fatigue Life Variability of Rene' 88 DT [pp. 305-314] M.J. Caton, S.K. Jha, A.H. Rosenberger, and J.M. Larsen Recovery and Recrystallization After Critical Strain in the Nickel-Based Superalloy René 88DT [pp. 391-400] D.D. Whitis Imaging and Characterization of γ Precipitates in Nickel-Based Superalloys [pp. 989-998] P. Sarosi, G. Viswanathan, D. Whitis, and M. Mills
Rene 95		gamma' strengthened powder metallurgy Ni based superalloy	turbine disks	Crucible Research	Quench Cracking Characterization of Superalloys Using Fracture Mechanics Approach [pp. 109-116] J. Mao, K.M. Chang and D. Furrer	Recovery and Recrystallization After Critical Strain in the Nickel-Based Superalloy René 88DT [pp. 391-400] D.D. Whitis
Thermospa n		Fe-Ni-Co-Cr alloy with low thermal expansion	compressor and exhaust casings, seals, and other gas turbine components requiring low expansion	Carpenter		
Udimet 700		Wrought Nickel-base superalloy.	turbine discs	Principal Metals C-M Group		
Udimet 720	n/a	Ni-Cr-Co-W-Mo-Ti-Al with high impact strength after elevated temperature exposure.	Gas turbine blade & disc	Special Metals	Characterization of Freckles in a High Strength Wrought Nickel Superalloys [pp. 19-28] P.D. Genereux and C.A. Borg The Mechanical Property Response of Turbine Disks Produced Using Advanced PM Processing Techniques [pp. 69-74] A. Banik and K.A. Green Removal of Ceramic Defects from a Superalloy Powder Using Triboelectric Processing [pp. 95-99]	Developing Damage Tolerance and Creep Resistance in a High Strength Nickel Alloy for Disc Applications [pp. 83-90] M.C. Hardy, B. Zirbel, G. Shen, and R. Shankar Effects of High Temperature Exposures on Fatigue Life of Disk Superalloys [pp. 269-274] T.P. Gabb, J. Telesman, P.T. Kantzos, J.W. Smith, and P.F. Browning Fatigue Crack Behavior Under Mixed Mode Loading in UDIMET 720 SX [pp. 295-304] M.R Joyce and P.A.S. Reed

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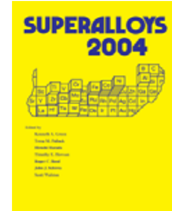

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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
					Characteristics and Properties of As-HIP P/M Alloy 720 [pp. 135-141] J.H. Moll and J.J. Conway	Effect of Powder Cleanliness on the Fatigue Behavior of Powder Metallurgy Ni-Disk Alloy Udimet 720 [pp. 409-421] P.Kantzos, P. Bonacuse, J. Telesman, T. Gabb, R. Barrie, and A. Banik
					Enhanced Powder Metallurgy (P/M) Processing of UDIMET® Alloy 720 Turbine Disks - Modeling Studies [pp. 143-149] J.J. Fisher, A. Casagranda, S.P. Vaze, F.D. Arnold, S.Y. Lin	
					Sub-Solidus HIP Process for P/M Superalloy Conventional Billet Conversion [pp. 425-433] X. Pierron, A. Banik, G.E. Maurer, J. Lemsky, D.U. Furrer and S. Jain	
					The Development of Improved Performance PM UDIMET® 720 Turbine Disks [pp. 785-794] S.K. Jain, B.A. Ewing and C.A. Yin	
Waspaloy	N07001	Ni-Co-Cr-Mo-Al-Ti alloy	gas turbine engine parts	Special Metals	Characterization of Freckles in a High Strength Wrought Nickel Superalloys [pp. 19-28] P.D. Genereux and C.A. Borg	The Effect of Partial Vacuum on the Fatigue Crack Growth of Nickel Base Superalloys [pp. 233-240] A.H. Rosenberger
				Capenter	Long Term Thermal Stability of INCONEL Alloys 718, 706, 909 and WASPALOY at 593°C and 704°C [pp. 449-458] S. Mannan, S. Patel and J. deBarbadillo	Recovery and Recrystallization After Critical Strain in the Nickel-Based Superalloy René 88DT [pp. 391-400] D.D. Whitis
				Allvac	Stress Rupture Behavior of Waspaloy and IN-738LC at 600°C (1112°F) in Low Oxygen Gaseous Environments Containing Sulfur [pp. 535-544] D.C. Seib	Determination of the γ'-Solvus Temperature of Two Commercial Wrought Ni-Base Superalloys by Thermal Expansion Measurements [pp. 517-522] W. Hermann, M. Fahrmann, and H-G. Sockel

TMS

Typical Wrought Superalloys

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The following is a summary of typical wrought superalloys, including links to supplier property data, full text of papers on the alloys in Superalloys 2000 and citations for the alloys in Superalloys 2004

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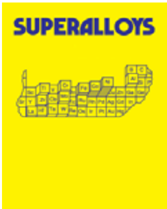
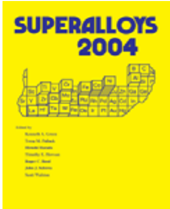


proc. Int. Symp. on Superalloys 2000, TMS, Warrendale PA, 2000



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ALLOY	UNS#	DESCRIPTION	APPLICATION	WEBLINK	SUPERALLOYS 2000	SUPERALLOYS 2004 (link above)
				Haynes International		Mechanical Property and Microstructural Characterization of Vacuum Die Cast Superalloy Materials [pp. 553-562] John J. Schirra, Christopher A. Borg and Robert W. Hatala
				Goodfellow		