Selected Readings: Superalloy Applications

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

PAPER TITLE	AUTHOR(S)	SOURCE	READ MORE
"Superalloys—The Utility Gas Turbine Perspective"	*B. B. Seth*	Superalloys 2000. Warrendale, PA: TMS, p. 3 - 16	Read the Full Article
"Saga of Gas Turbine Materials"	*R. Schafrik and R. Sprague*	Adv. Mat. And Proc. , May 2004, p. 29 -33.	Link to Journal Website
"P/M Alloy 718 Tubing Produced by Cold Radial Forging"	*E. A. Loria*	Superalloy 718: Metallurgy and Applications, 1989, Warrendale, PA: TMS, p. 427 - 436	Read the Full Article
"Ni-Based Superalloys for Turbine Discs"	*David Furrer and Hans Fecht*	JOM, January 1999, pp. 14-17	Read the Full Article
"Application of Alloy 718 in GE Aircraft Engines: Past, Present and Next Five Years"	*R.E. Schafrik, D.D. Ward, and J.R. Groh*	Superalloys 718, 625, 706, and Derivatives, Warrendale, PA: TMS, 2001, pp. 1-11.	Read the Full Article
"Alloy 718 at Pratt & Whitney - Historical Perspective and Future Challenges"	*D.F. Paulonis, and J.J. Schirra*	Superalloys 718, 625, 706, and Derivatives, Warrendale, PA: TMS, 2001, pp. 13-23.	Read the Full Article
"Alloy 706 Use, Process Optimization, and Future Directions for GE Gas Turbine Rotor Materials"	*P.W. Schilke, and R.C. Schwant*	Superalloys 718, 625, 706, and Derivatives, Warrendale, PA: TMS, 2001, pp. 25-34.	Read the Full Article
"Alloy 625—Impressive Past/Significant Presence/Awesome Future"	*G.D. Smith, D.J. Tillack, and S.J. Patel*	Superalloys 718, 625, 706, and Derivatives, Warrendale, PA: TMS, 2001, pp. 35-46.	Read the Full Article
"Use of Alloy 718 and 725 in Oil and Gas Industry"	*R.B. Bhavsar, A. Collins, and S. Silverman*	Superalloys 718, 625, 706, and Derivatives, Warrendale, PA: TMS, 2001, pp. 47-55.	Read the Full Article
"Allvac® 718plus™, Superalloy for the Next Forty Years"	*R.L. Kennedy*	Superalloys 718, 625, 706, and Derivatives, Warrendale, PA: TMS, 2005, pp. 1-14	Link to Proceedings