

**Table 3.** Parameters of the Johnson–Cook material model for Al 6061-T6 alloy.<sup>1,2,47,48</sup>

Model	A (MPa)	B (MPa)	C	n	m
Lesuer et al. <sup>1</sup>	324	114	0.002	0.42	1.34
M1 model					
Daoud et al. <sup>2</sup>	250	79.70	0.0249	0.499	1.499
M2 model					

# Johnson Cook Aluminum

**Karel Dvořák, Dominik Gazdič, Ramya  
Muthusamy, Thangaprakash  
Sengodan, Olga Tsurtsunia**

## **Johnson Cook Aluminum:**

*An Evaluation of the Johnson-Cook Model to Simulate Puncture of 7075 Aluminum Plates*, 2014 The objective of this project was to evaluate the use of the Johnson Cook strength and failure models in an adiabatic finite element model to simulate the puncture of 7075 T651 aluminum plates that were studied as part of an ASC L2 milestone by Corona et al 2012 The Johnson Cook model parameters were determined from material test data The results show a marked improvement in particular in the calculated threshold velocity between no puncture and puncture over those obtained in 2012 The threshold velocity calculated using a baseline model is just 4% higher than the mean value determined from experiment in contrast to 60% in the 2012 predictions Sensitivity studies showed that the threshold velocity predictions were improved by calibrating the relations between the equivalent plastic strain at failure and stress triaxiality strain rate and temperature as well as by the inclusion of adiabatic heating

**Dynamic Behavior of Materials, Volume 1** Steven Mates, Veronica Eliasson, 2022-01-01 *Dynamic Behavior of Materials Volume 1 of the Proceedings of the 2021 SEM Annual Conference Exposition on Experimental and Applied Mechanics* the first volume of four from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics including papers on Synchrotron Applications Advanced Dynamic Imaging Quantitative Visualization of Dynamic Events Novel Experimental Techniques Dynamic Behavior of Geomaterials Dynamic Failure Fragmentation Dynamic Response of Low Impedance Materials Hybrid Experimental Computational Studies Shock and Blast Loading Advances in Material Modeling Industrial Applications [Johnson-Cook Material Model Constants for Three Aluminum Based Particulate Metal Matrix Composites](#) Haylan Hamid Hilfi, 1994

**Manufacturing Science and Technology (ICMST2013)** Ahmad Ghanbari, 2013-09-23 Selected peer reviewed papers from the 2013 4th International Conference on Manufacturing Science and Technology ICMST 2013 August 3 4 2013 Dubai UAE [Aluminium Alloys](#) Jürgen Hirsch, Birgit Skrotzki, Günter Gottstein, 2008-11-17 Aluminium is a well established modern lightweight engineering and functional material with a unique combination of specific properties like strength formability durability conductivity corrosion resistance etc It is present in many intelligent solutions in established markets like building transport packaging printing and many others in our fast moving modern society The various aluminium alloys can be processed quite efficiently in large quantities by conventional fabrication routes as well as in special sophisticated forms and material combinations for highly innovative high tech solutions and applications This book contains latest information about all these aspects in form of the refereed papers of the II th International Conference on Aluminium Alloys ICAA where world wide experts from academia and engineers from industry present latest results and new ideas in fundamental as well as applied research Since 22 years the ICAA series provides scientists and engineers with a complete overview over the latest scientific and technological developments featuring profound technology based overviews and new

innovative perspectives This book is a reference for the scientific community as well as for the aluminium industry working on aluminium alloy development processing and application issues It gives a global perspective on the current focus of international research with emphasis on in depth understanding of specific properties and applications of conventional and advanced aluminium alloys *Industrial Automation and Robotics* Kaushik Kumar,B. Sridhar Babu,2022-10-07 This book discusses the radical technological changes occurring due to Industry 4.0 with a focus on offering a better understanding of the Fourth Industrial Revolution It also presents a detailed analysis of interdisciplinary knowledge numerical modeling and simulation and the application of cyber physical systems where information technology and physical devices create synergic systems leading to unprecedented efficiency The book focuses on industrial applications of automation and robotics It covers recent developments and trends occurring in both computer aided manufacturing techniques as well as computer aided assembly techniques Robots using embedded systems and artificial intelligence applications are also covered *Industrial Automation and Robotics Techniques and Applications* offers theoretical results practical solutions and guidelines that are valuable for both researchers and those working in the area of engineering Proceedings of Mechanical Engineering Research Day 2018 Mohd Fadzli Bin Abdollah,2018-05-16 This e book is a compilation of papers presented at the 5th Mechanical Engineering Research Day MERD 18 Kampus Teknologi UTeM Melaka Malaysia on 03 May 2018 **Tuning Johnson-Cook Material Model Parameters for Impact of High Velocity, Micron Scale Aluminum Particles** Arash Alizadeh Dehkharghani,2016 Cold Spray CS is an additive manufacturing process which uses the extreme plastic deformation of micron scale particles to repair surface defects This process requires accelerating particles to very high velocities 200-1000 m/s by a supersonic compressed gas jet at temperatures well below particle's melting point Although many metals and alloys have been successfully processed using the CS techniques the accurate dynamic responses of individual metallic particles related to the deformation characteristics are still largely unknown Therefore the main objective of this research is to investigate the mechanics of single particle impact The outcome of this study can be used to study multi particle impact and ultimately study the mechanics of 3D printed metals using CS technology Numerical simulation has been used to produce the particle impact results Simulations show that the material experiences very high strain rates  $10^7$  to  $10^8$  s<sup>-1</sup> causing severe plastic deformation To conduct an accurate analysis in the simulations the flow stress of the material should predict appropriate metal behavior at that range of strain rate In this study the Bilinear Johnson Cook material model has been used to predict the flow stress and Aluminum 6061 was chosen as the particle's material property Simulations included the effects of high strain rate HSR plasticity heat generation and dissipation material damage and surface interactions in three dimensions High strain rate experimental results are usually done by using Split Hopkinson Pressure Bar (SHPB) Since these experiments have limitation on the maximum strain rate applied to the sample there is no accurate data for the flow stress of the material at the high rates encountered in CS Therefore in this thesis a computational material model calibration has been

performed for the Bilinear JC model for the HSR applications The optimization process uses the method of steepest descent to find the best constants in the Bilinear JC constitutive law The difference between ellipticity ratio of the deformed particle in simulation and experiments is used as the objective function and the parameters of the Bilinear JC equation are modified until the objective function is satisfied The optimized bilinear Johnson Cook model was used to simulate the deformed shape of particles The results show a very good agreement between the simulations and single particle impact experiments The optimized bilinear JC model was further verified by comparing simulation results of the particle rebound velocity and the coefficient of restitution COR to experimental data The methodology developed in this thesis can be used to develop the model parameters for different materials and other HSR material models

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