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AD-773 673, "Plane Strain Fracture Toughness (KIC) Data Handbook for Metals," Army Materials and Mechanics Research Center, December 1973 AFRL-VA-WP-TR-2003-3002, "USAF Damage Tolerant Design Handbook: Guidelines for the Analysis and Design of Damage Tolerant Aircraft Structures," November 2002

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New tables have been added to this valuable reference: Tables 13a and 13b - Published Average and Minimum Values of Plane Strain Fracture Toughness K_{Ic} for Wrought Aluminum Alloys (US Customary Units and Metric Units, respectively) ; Table 14 - Resistance of Aluminum Alloys to Stress Corrosion Cracking and Exfoliation Corrosion; Tables 15a and 15b - Estimated Typical and Minimum Cross-Weld ...

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Plane-Strain Fracture Toughness, Testing K_{Ic} ... with procedures of the Quality Assurance Program Plan to permit acquisition of data that might be applicable to the selection criteria being completed under Activities E 20-15 and E 20-19. 2. Scope This test procedure is divided into three parts. The first part is a brief background theory on plane-strain fracture toughness. The second part ...

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Plane-strain fracture toughness testing is unusual in that there can be no advance assurance that a valid K_{Ic} , K_{Ic} , or K_{Ic} will be determined in a particular test. Therefore, it is essential that all the criteria concerning the validity of results be carefully considered as described herein. This test method can serve the following purposes: To establish the effects of metallurgical variables ...

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Plane Strain Fracture Toughness Data Handbook for Metals - Free download as PDF File (.pdf), Text File (.txt) or read online for free. A compilation of plane strain K_{Ic} data is presented for metals manufactured in the USA and Europe, including SO steels, 21 titanium alloys, 38 aluminium alloys, and one beryllium material. The data corresponds to static loading in neutral laboratory environment.

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3.1.2 plane-strain fracture toughness, K_{Ic} [FL-3/2] —the crack-extension resistance under conditions of crack-tip plane strain in Mode I for slow rates of loading under predominantly linear-elastic conditions and negligible plastic-zone adjust-ment. The stress intensity factor, K_{Ic} , is measured using the

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When a test fails to meet the thickness and other test requirement that are in place to insure plane-strain condition, the fracture toughness values produced is given the designation K_{Ic} . Sometimes it is not possible to produce a specimen that meets the thickness requirement. For example when a relatively thin plate product with high toughness is being tested, it might not be possible to ...

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The plane-strain fracture toughness, K_{Ic} , of the material should be a constant of the material that reflects the fracture resistant (crack instable expansion) ability. It is more reasonable that one representing the value of K_{Ic} of a material should be taken. This problem is worth discussion. If not handled properly, it will occur over-conservative or unsafe. It will be seen from this that it ...

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