Stress-Rupture Characterization in Nickel-Based Superalloy Gas Turbine Engine Components

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Due to a publication error, Figure 15 was published with the labels switched for the two micrographs. We apologize for this error, and print the corrected Figure 15 below.

Fig. 15 Effect of high-temperature exposure resulting in partial resolution of the gamma prime (γ') precipitates in a SX blade casting. Rafting (coalescence and elongation of the γ') occurs perpendicular to the primary stress direction. Cuboidal precipitates (darker phase) is γ' . Matrix is the lighter γ phase. Etchant: 33% glycerol, 33% nitric acid, 33% acetic acid, and 1–3% hydrofluoric acid

Gamma Prime (γ') Structure @ 5% TE Airfoil Span
Partially Resolutioned, Rafted γ' Structure

Non-Heat Distressed Cuboidal Gamma Prime (γ') Structure

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