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This research studied the effect of a two-step austempering process on the fracture toughness of ductile iron and compared it to that of the conventional upper- and lower-ausferrite austempered...

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Few researchers [29][30] [31] found some improvement in mechanical properties as a result of the step-down austempering process; others [20,21] have concluded no remarkable differences in the ... (PDF)
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The present test results indicate no significant difference in the mechanical properties and fracture toughness in ADI processed by conventional as well as step-down austempering process at the same austempering temperature. However, the step-down austempering process has the advantage of lower processing cost compared to the conventional austempering process, without compromising any of the mechanical properties.

Comparison of the Mechanical Properties of Austempered ...

A high austempering temperature (370 ° C) results in a coarse microstructure with a fairly large amount of retained austenite blocks. Reducing the austempering temperature to 300 ° C

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favors the formation of a finer microstructure with smaller isolated austenite blocks .

Influence of casting heterogeneities on microstructure and ...

The austempering time and temperature directly influence the mechanical properties of ductile iron alloy. Lower austempering temperatures, it has high hardness, due to the presence of a very thin ferrite.

INFLUENCE OF AUSTEMPERING TIME AND AUSTEMPERING ...

In case of single-step austempering, with further increase in temperature, ferrite volume fraction decreased substantially to a critical value (about 69%) at 343 ° C or 650 ° F. This temperature is termed as critical austempering temperature (T_{AC}), where the dominant effect of ferrite

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Volume fraction is greatly decreased.

Meanwhile, the total contribution from interactions between dislocations and carbon atoms also decreased significantly because of less ferrite in the matrix.

Influence of a novel two-step austempering process on the ...

In this investigation a new low carbon and low alloy (LCLA) (Third generation AHSS) steel with exceptional combination of yield strength and fracture toughness has been developed. The steel has been processed using a novel two step austempering process. The investigation also examined the influence of a two-step austempering process on the microstructure and mechanical properties of this steel.

Influence of Two-Step Austempering Process on the Fracture ...

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(2007). Influence of austenitising and austempering temperatures on microstructure and properties of dual phase ADI. Materials Science and Technology: Vol. 23, No. 11, pp. 1321-1326.

Influence of austenitising and austempering temperatures ...

The phenomenon, hardness lag of the alloyed bainite ductile cast Iron, has been discussed. It shows that after the step austempering in room-temperature machine oil, the hardness will increase with the time. It is found that boron and manganese can increase the hardness and reduce the impact strength while copper can increase the impact strength.

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