

The Necessary Pressure for Cold Welding on Cogged Surfaces

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ABSTRACT

In case of cold welding with conventional methods, there are used important up-setting pressures, up to ten times bigger than the flowing resistance of base metals. In case of welding on cogged surfaces, due to its low deformation rates, lower pressures are expected to occur. The present paper presents, in case of aluminum, the necessary pressure to achieve the weld that is up to two times bigger for welding on cogged surfaces than the flowing resistance of the base materials.

References

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