MECHANICAL PROPERTIES OF THREE THICKNESS RESISTANCE SPOT WELDS FOR LOW CARBON STEEL

MECHANICKÉ VLASTNOSTI A ODOLNOST BODOVÝCH SVARŮ TŘÍ TLOUŠTĚK NÍZKOUHLÍKOVÉ OCELI

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In this paper, weld nugget growth and mechanical properties of three thickness low carbon steel resistance spot welds are investigated. Unlike two thickness resistance spot welded joint, weld nugget was formed in the geometrical center of the joint (i.e. center of the middle sheet). Weld nugget size along sheet/sheet interface was greater than that of along geometrical center of the joint. Increasing welding time leads to increasing peak load of the joint and transition of interfacial failure mode to pullout failure mode, primarily due to the enlargement of weld nugget size along sheet/sheet interface.

Autor nedodal plný text příspěvku

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