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**Specification and qualification of welding  
procedures for metallic materials —  
Welding procedure test —**

**Part 13:  
Upset (resistance butt) and flash welding**

*Descriptif et qualification d'un mode opératoire de soudage pour les  
matériaux métalliques — Épreuve de qualification d'un mode opératoire  
de soudage —*

*Partie 13: Soudage en bout par résistance pure et soudage par  
étincelage*





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