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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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Published in Switzerland