## **NST FCW A625** AWS A5.34 / A5.34M: 2007 ENiCrMo3 T1-4



## Flux cored wire for pipe and plate welding of Inconel 625 and 6Mo material. General description: NST FCW A625 is a flux cored wire for the joining of Interpass temperature should not exceed 150 °C, and heat input should not exceed 1,5 kj/mm. 6Mo alloys (254 SMO and Inconel 625). Hot cracking is a well-known challenge in this type of This wire can also be used for Cladding applications. The slag system allowes you to weld in all positions welding. For more details contact NST. with good control of the weld bead. The wire is to be used with M21 mix gas. "Purity" is the keyword when welding high alloyed materials. Impurities in the weld, will cause porosity. Welding of pipes requires the use of purge gas in order to ensure a perfect root. Welding positions: Welding current: Gas flow: DC+ 16-20 l/min. Chemical composition of all-weld-metal: Ρ Nb+Ta С S Ni Cr Мо Cu Fe Max 0.10 Max 0.02 Max 0.015 Min 58.0 20-23 8-10 Max 0.50 Max.5.0 3.15-4.15 Shielding gas: Ar/CO<sub>2</sub>: Typ. 18%CO<sub>2</sub>+82%Ar (Class M21). Typical mechanical properties of all-weld-metal: Charpy Impact Test Yield and Tensile Strengths Tensile Yield Elongation Charpy V (J) Charpy V (J) Mpa(Rm) % +0 °C -196 °C Mpa(Rp0.2) 470 770(>690) ≥34 53 48 Guidance - Ampere (DC+): Electrode diameter 1,2 mm PF 1,2 mm PA/PB 190-210 A / 30-31 V Ampere / Volt 135-160 A / 24-26 V **Packaging information: Approvals:** 1.2mm x 12.5kg D300 Reference / date:

NST FCW A625,

English, 19.11.2013

**Perfect Welding** 

www.nst.no