

TECHNICAL SHEET

100 SG



Product name

100 SG

Class of product

Nickel - Chromium – Molybdenum alloyed wire for MIG / TIG welding

Corresponding standards

EN12534 Mn3NiCrMo
AWS 5.28 ER100S-G

Composition (weight %)

C: 0,08 – 0,10
Si: 0,60 – 0,80
Mn: 1,60 – 1,80
P: < 0,015
S: < 0,018
Cr: 0,55 – 0,65
Mo: 0,25 - 0,30
Ni: 0,50 – 0,60
Cu: < 0,30
Others: < 0,25

Typical Mechanical Properties

Yield Strength: R_e : ≥ 620 N/mm²
Tensile Strength R_m : ≥ 700 N/mm²
Elongation: A (5d): $\geq 18\%$
Impact Strength: KV (-40 °C): ≥ 47 J

Range of application:

For fine-grained and NiCrMo steels.
Suitable for earth-moving machinery, bridges, tanks, vessels, railway transportation, etc.

The above data are subject to change without notice by Spring.

SPRING WELDING ALLOYS

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