

# High temperature fatigue and corrosion resistant

## MXW K423-S

### Product Features:

- MXW K423-S is a submerged arc martensitic stainless wire designed specifically for the steel industry as a weld overlay for continuous caster rolls. The alloy resists the formation of thermal fatigue cracks (fire cracking) during operation. The alloy has good corrosion resistance combined with excellent wear properties, and uniform tempering response.

### Applications:

- Steel Mill Continuous Caster Rolls, Idler rolls.

Typical chemical composition of all-weld metal (wt%)

C	Si	Mn	Ni	Cr	Mo
0.11	0.4	1.1	2.3	13.5	1.2

Typical characteristics of weld metal

Thermal Fatigue	Wear Properties	Machining	Welding Layer	Hard facing stress crack	Hardness HRC
Good	Excellent	Tungsten Carbide tools can be used	3	Non	45

Size & recommended welding parameters

Diameter	3.2 mm
Polarity	DC+
Ampere	290~450
Voltage	29~40
Wire extension	25~35mm
Flux	Neutral Flux (GNF50)

**Note:** Three layer hardness on 1020 steel.

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