

FAMILIARCTM MX-50R

Hybrid flux cored wire for carbon steel suitable for robotic system/oscillator



for structural steel industry including seismic application AWS A5.20 E70T-1C

Features and typical fields of application

➤ MX-50R is a 70ksi class mild steel flux cored wire specifically designed for use with Kobelco's ARCMANTM robotic system and ARCMANTM series Portable. Hybrid slag formula gives MX-50R its excellent weldability and efficiency in flat and horizontal position.

[Compared to conventional Flux Cored Wire (A5.20 E70T-1C, E71T-1C)]

- Higher deposition rate
- Less slag generation

[Compared to conventional Metal Cored Wire (A5.18 E70C-6M)]

- Smoother bead shape with minimal sagging even in horizontal groove welding
 Straight CO₂ shielding gas is available
- > Its low fume emission formula creates a clean welding environment at any welding condition.
- MX-50R has AWS D1.8 approval, making it a superior choice for seismic applications in the structural steel industry.





MX-50R, 0.052", Horizontal Groove Welding with ARCMAN[™] series Portable with 100%CO₂ gas

Mechanical properties of all-weld metal per AWS A5.20 and D1.8 Structural welding code

Code	Shielding Gas	0.2% PS (ksi)	TS (ksi)	El (%)	CVN (ft-lbs)
AWS A5.20		65	78	32	66 at 0°F
AWS D1.8 Low H. lpt: 31kJ/in	100%CO ₂	67	80	29	83 at +70°F
AWS D1.8 High H. Ipt: 79kJ/in		60	77	30	91 at +70°F



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AWS D1.8 Seismic Arc

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Chemical Composition of all weld metal per AWS A5.20 (%)										
Shielding Gas	С	Si	М	n P	S					
100%CO ₂	0.04	0.57	1.6	60 0.008	0.006					
Approvals	Available Products									
AWS D1.8	Wire Dia.	0.052"	Package 33lbs spool, 550 lbs		Drum					

ARCMAN[™]Welding Robot System

ARCMAN[™]series Portable





Kobe Steel is a welding solutions company that develops all of its own Original welding robots, welding power sources, and welding wires aims to be your No.1 partner for structural steel fabrication including Seismic supplements.

DISCLAIMER

- Information in this material, such as chemical compositions and mechanical properties, is typical or an example for explaining the features and performances
 of our products, and it does not mean guarantee unless otherwise it is specified.
- Information contained herein is subject to change without notice. Please kindly contact Kobelco for latest information.



WARNING: This product can expose you to chemicals including Nickel and Titanium Dioxide, which are known to the State of California to cause cancer, and Chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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