



Large diameter flux cored wire suitable for flat and horizontal position AWS A5.20 E70T-1C H8, 9C H8











# Features and typical fields of application

- > DW-50AY is a mild steel flux cored wire for flat and horizontal fillet welding with straight CO<sub>2</sub> gas. Its high deposition rates will contribute to an increase in productivity.
- > DW-50AY produces a flat and smooth bead profile and very low amounts of spatter generation.
- > It has AWS D1.8 certification, making it the superior choice for welding seismic applications in the structural steel industry.

### Bead appearance





DW-50AY, 3/32", Horizontal Fillet Welding at 43.2kJ/in with 100%CO<sub>2</sub> gas

## Mechanical properties of all-weld metal as 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		70	81	32	89 at -40°F 94 at	-20°F
AWS D1.8 Low H. lpt: 33kJ/in	100%CO <sub>2</sub>	81	90	29	127 at +70°F	
AWS D1.8 High H. Ipt: 81kJ/in		62	74	39	226 at +70°F	

#### Chemical Composition of all weld metal as per AWS A5.20 (%)

Shielding Gas	С	Si	Mn	Р	S
100%CO <sub>2</sub>	0.06	0.37	1.52	0.011	0.005









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Diffusible Hydrogen Content as per AWS A4.3	Approvals
3.6 mL/100g	AWS D1.8

## Recommended welding conditions and deposition rate

Wire Dia.	Wire Feed Speed (in/min)	Current (A)	Arc Voltage (V)	Deposition Rate (lbs/hr)	Wire Stick-Out	
3/32"	100	350	26-30	8.9	1"	
	120	400	28-33	10.7		
	140	450	30-35	12.5	1	
	160	500	32-37	14.3		

#### **Available Products**

Wire Dia.	3/32"
Package	50 lbs Coil

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  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.



