

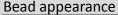
# TRUSTARC DW-A62LSR



Rutile flux cored wire for high strength steel applicable to post weld heat treatment with Ar-CO2 mixed gas AWS A5.29 E91T-GM

### Features and typical fields of application

- ➤ 90 ksi class rutile flux cored wire suitable for post weld heat treatment (PWHT) without adverse degradation of mechanical properties while retaining acceptable mechanical properties
- ➤ Excellent impact toughness value down to -76F in the As-Welded condition and down to -40F after typical PWHT condition
- ➤ DW-A62LSR is designed to be used with 80%Ar-20%CO<sub>2</sub> shielding gas. It has a wide welding parameter range which makes this product very versatile for all position welding
- The optimized chemical design of the weld metal provides superior mechanical properties suitable for the most demanding industry specifications





DW-A62LSR, 0.045", vertical upward welding at 51kJ/inch with 80%Ar-20%CO2 gas

## Mechanical properties of all-weld metal as per AWS A5.29 with typical PWHT conditions

PWHT condition	LMTP* (x10 <sup>3</sup> )	0.2% PS (ksi)	TS (ksi)	EL (%)	RA (%)	CVN (ft-Lbs)	
						-76F°	-40F°
As Welded	-	89	98	23	64	72	83
1080F° x 2hours	17.3	88	98	24	64	54	72
1150F° x 2hours	18.1	87	96	24	58	39	68
1150F° x 8hours	18.7	86	94	28	69	52	86

<sup>\*</sup> Larson-Miller Parameter; (T+20)Log(t), where T: Temperature/K, t: time/h

### Chemical Composition of all weld metal as per AWS A5.29 (wt.%)

С	Si	Mn	Р	S	Ni	Others
0.05	0.14	1.29	0.007	0.008	2.59	Ti, B, Mo



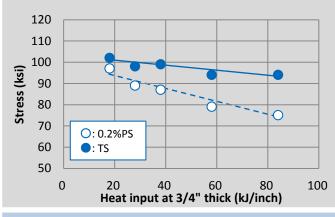
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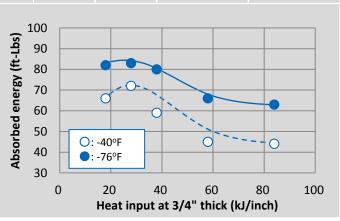


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### Heat input envelope test with AWS A5.29 groove preparation (As Welded)

Heat Input	Pass Sequence		0.2% PS	TS	EL	RA	CVN (ft-Lbs)	
(kJ/inch)	Pass	Layer	(ksi)	(ksi)	(%)	(%)	-76F°	-40F°
18	25	8	97	102	23	65	66	82
28	15	7	89	98	23	64	72	83
38	12	6	87	99	26	64	59	80
58	7	7	79	94	25	65	45	66
84	7	7	75	94	23	63	44	63





### Recommended welding conditions and depostion rate

Wire Dia.	Wire Feed Speed (in./min)	Current (A)	Arc Voltage (V)	Deposition Rate (Lbs/hr)	Wire Stick- Out (In.)
	140	120	21-24	4.0	
0.045"	200	160	23-26	6.0	
	290	200	25-28	8.0	3/4"
	330	220	25-28	9.0	
	400	250	26-28	10.5	

### Size and Package

Wire Dia.	0.045"	Package	28Lbs spool with aluminum sealed
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#### 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.



