

## Alloy C-263 Data Sheet

### Product Description:

Alloy C-263 filler metal is used for the gas metal arc and gas tungsten arc welding of 263 alloy. The alloy is often used in aircraft engines and land based gas turbines for power generation. The alloy has excellent strength in the 1000°F-1600°F (540°C-870°C) temperature range and excellent forming and welding characteristics. The RTW™ finish on the spooled wire promotes smooth feeding through welding equipment and reduced tip wear in contact tips.

### Specifications:

AMS 5966      MSRR9500/16      B50A783

### Composition:

Ni	Balance	Mn	0.60 max.	B	0.005
Cr	19.0 - 21.0	Al	0.30 - 0.60	Pb	0.002
Co	19.0 - 21.0	Si	0.40 max.	Bi	0.0001
Mo	5.60- 6.10	Cu	0.20 max.	Ag	0.0005
Ti+Al	2.40 - 2.80	C	0.04 - 0.08		
Ti	1.90 - 2.40	P	0.015 max.		
Fe	0.70 max.	S	0.007 max.		

### Minimum Mechanical Properties:

Tensile Strength (psi)  
 Tensile Strength (Mpa)  
 Elongation (%)

### Available Product Forms and Sizes:

Diameter, in.	0.030	0.031	0.035	0.039	0.045	0.047	0.062	0.078	0.093	*0.125	*0.156 <sup>x</sup>	*0.187 <sup>x</sup>
Diameter, mm.	0.76	0.80	0.89	1.00	1.10	1.20	1.60	2.00	2.40	*3.20	*4.00 <sup>x</sup>	*4.70 <sup>x</sup>

Filler metals are available in MIG spools, TIG cut lengths, reels, and coils from the above diameters.

\*Size not available in MIG spools.

<sup>x</sup>Size not available on reels.

Standard TIG straight lengths are available in 36" (914mm) lengths. *Other lengths available upon request.*

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