



5356 – PRODUCT DATA SHEET

Nexalloy 5356 is a 5% magnesium all position non-heat treatable wire used to weld the 5XXX series alloys with some common welding applications such as boats, ships, bicycles, trucks, pressure vessels, automotive parts and equipment.

NEXAL WELDING PRODUCTS APPROVALS AND SPECIFICATIONS

AWS A5.10 classification ER5356, R5356 Canadian Bureau of Welding – CWB

Chemical Composition (weight %)

Aluminum	Remainder	Silicon	0.25 Max
Manganese	0.05-0.20	Magnesium	4.5-5.5
Iron	0.40 Max	Chromium	0.05-0.20
Copper	0.10 Max	Titanium	0.06-0.20
Beryllium	0.0008 Max	Zinc	0.10 Max
Other Elements	0.05 Max & Total 0.15 Max		

Typical Properties

Melting Range	1060 – 1175 F 571 – 635 C
Tensile Strength	29-45,000 PSI / 200-310 MPa
Yield Strength	12-30,000 PSI / 83-207 MPa
Elongation in 2"	10 – 18%
Density	.096 lbs\cu in.
Post Anodize Color	White

Wire and Rod Diameters Available

0.030 0.035 3/64" 1/16" 3/32" 1/8" 5/32" 3/16" 1/4" 5/16"

Packaging Available

Plastic Spools – 1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG

Metal Spools – 10LB/4.5KG, 15LB /6.8KG **TIG Rods** – 5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

Drums – 150LB/68KG, 300LB/136KG

MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon(cfh)
0.030	480-625	60-175	15-24	0.65-1.25	25-30
0.035	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	26-31	35-66	60-85

TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon(cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

Nexal Aluminum Inc.
www.nexalloy.com

5938 Ambler Drive Mississauga, ON L4W 2N3
An ISO 9001:2008 Certified Company

Phone: 1-905-629-8282
Fax: 1-905-629-8532

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