

Welding Consumables

Stainless Steel
Metal-Cored
Mild Steel
Nickel Alloy

Nickel Alloy
MIG, TIG and Stick



American Wire Research, Inc.

Nickel Alloy Welding Consumables

Key benefits

- Wide range of surface temperature from cryogenic up to elevated temperature of 1000° C plus
- Retain ductility and crack resistance with a high level of safety at gas liquefaction temperatures
- Reduce possibilities of hydrogen induced cracking
- Great resistance to hot cracking
- Improved hot creep resistance

Demanding applications require nickel and nickel alloy consumables

- Liquid Natural Gas (LNG) tank and pressure vessel
- Thermal power station and nuclear power plant
- Dissimilar metal welds between nickel base and most steels or other ferrous alloys
- Comprehensively used in chemical, petroleum chemistry and aeronautical constructions

GMAW & GTAW			
Product Name	AWS Classification	Diameter	Packaging & Weight
AW-Ni1 AWT-Ni1	ERNi-1	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCu7 AWT-NiCu7	ERNiCu-7	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCr3 AWT-NiCr3	ERNiCr-3	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCrFe5 AWT-NiCrFe5	ERNiCrFe-5	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-CuNi AWT-CuNi	ERCuNi	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCrCoMo1 AWT-NiCrCoMo1	ERNiCrCoMo-1	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCrMo1 AWT-NiCrMo1	ERNiCrMo-1	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCrMo2 AWT-NiCrMo2	ERNiCrMo-2	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCrMo3 AWT-NiCrMo3	ERNiCrMo-3	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCrMo4 AWT-NiCrMo4	ERNiCrMo-4	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiCrMo10 AWT-NiCrMo10	ERNiCrMo-10	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs
AW-NiFeCr1 AWT-NiFeCr1	ERNiFeCr-1	MIG: 0.035" to 1/16" TIG: 0.045" to 3/16"	Spool: 30lbs, 33lbs Tube: 36" x 10lbs

SMAW			
Product Name	AWS Classification	Diameter	Packaging & Weight
ASE-Ni1	ENi-1	3/32" to 1/4"	Tube: 12" x 10lbs, 14" x 10lbs
ASE-NiCrFe1	ENiCrFe-1	3/32" to 1/4"	Tube: 12" x 10lbs, 14" x 10lbs
ASE-NiCrFe2	ENiCrFe-2	3/32" to 1/4"	Tube: 12" x 10lbs, 14" x 10lbs
ASE-NiCrFe3	ENiCrFe-3	3/32" to 1/4"	Tube: 12" x 10lbs, 14" x 10lbs
ASE-NiCrMo3	ENiCrMo-3	3/32" to 1/4"	Tube: 12" x 10lbs, 14" x 10lbs
ASE-NiCrMo4	ENiCrMo-4	3/32" to 1/4"	Tube: 12" x 10lbs, 14" x 10lbs
ASE-NiCu7	ENiCu-7	3/32" to 1/4"	Tube: 12" x 10lbs, 14" x 10lbs



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