

THERMAL SPRAY WIRE

PRODUCT	COMPOSITION (WEIGHT-%)	APPLICATIONS	HARDNESS
DURMAT AS-751	C 0.4 / Si 4-5 / B 1.7-2.0 / Ni bal. + FTC	Flux-cored wire alloy with 50% FTC for high resistance against abrasion. Good corrosion protection.	~50-60 HRC
DURMAT AS-752	C 0.7 / Si 4.8 / Cr 13-15 / B 3.0 / Ni bal.	Similar to Durmat AS-753, but with higher B-content to increase the hardness and the resistance against abrasion.	~64 HRC
DURMAT AS-753	C 0.4 / Si 5-5.5 / Cr 22-25 / B 1.7-2.0 / Ni bal.	Ni-Cr-B-Alloy for wear and corrosion protection, e.g. in chemical and food industry.	~50-60 HRC
DURMAT AS-754	C 0.1 / Cr 16 / Mo 17 / W 5 / Ni bal.	High corrosion resistance e.g. in acids with chloride content. Good resistance against abrasion and friction.	~200-240 HB
DURMAT AS-755	C 0.05 / Cr 21-22 / Mo 9 / Nb 3.5 / Ni bal.	Similar to DURMAT AS-754, but more resistant against wear and corrosion.	~20-30 HRC
DURMAT AS-756	Ni 95 / Al 5	Bond and top coat. Good resistance against particle erosion and oxidation.	~65 HRB
DURMAT AS-757	Ni 80 / Cr 20	Bond and top coat. Good resistance against corrosion and oxidation.	~90 HRB
DURMAT AS-758	Cr 15 / Mo 15 / Fe 5 / W 3.5 / Ni bal.	Very corrosion resistant in a broad range of acidic and chloride environments. In addition DURMAT AS 758 coatings exhibits very good metal-to-metal wear resistance	~35 HRC
DURMAT AS-760	C 0.3 / Cr 19 / Si 3.8 / B / SC / Ni bal.	Ni-Cr-B-Alloy with 10% refractory carbides for high wear and corrosion protection, can be fused.	~700-1000 HV
DURMAT AS-761	C 0.4 / Si 4-5 / B 1.7-2.0 / Cr 10 / Ni bal. + FTC	Flux-cored wire alloy with 50% FTC for high resistance against abrasion. Similar to AS 751, but with Cr to increase the corrosion resistance.	~50-60 HRC
DURMAT AS-762	Cr 8 / Fe 5 / Ni 75 / Mo 5 / Al 7	Alloy for bond and buffer coatings.	~100-120 HRB
DURMAT AS-763	Ni 50 / Cr 50	Bond and top coat. Good resistance against corrosion and oxidation.	~22-28 HRC
DURMAT AS-765	Ni 80 / Al 20	DURMAT AS 765 wire produces superior bond coats that are dense and resistant to high temperature oxidation, thermal shock and abrasion.	~70 HRB
DURMAT AS-767	Mo 6 / Al 5 / Ni bal.	DURMAT AS 767 is a molybdenum nickel aluminium alloy designed to be self-bonding. The coatings have good particle erosion resistance.	~78 HRB
DURMAT AS-810	Al 6 / Si 0.45 / Cr 26 / Fe bal.	Resistance against corrosion and oxidation (up to 870°C) in fluids with S-contamination. High conductivity, good adhesive property, and good machining properties.	~200-220 HV
DURMAT AS-811	C 0.2 / Si 0.3 / 1.3 Mn / Fe bal.	Reconditioning of seats of rolling bearings. Good machining properties.	~200-240 HV
DURMAT AS-812	Cr 29 / Si 1.5 / Mn 0.6-1.5 / B 3.3-3.8 / Fe bal.	Wear and corrosion resistant coatings of feeding systems, e.g. for the chemical industry.	~48-52 HRC
DURMAT AS-813	Cr 17 / Ni 12 / Mo 2.5 / Mn 1.8 / Si 1 / C 0.12-0.17 / Fe bal.	Austenitic stainless steel similar to type 316	~200-240 HV
DURMAT AS-814	Cr 18 / Mn 8-8.5 / Ni 4.8-5.2 / Si 1 / C 0.14-0.16 / Fe bal.	Stainless steel with high resistance against corrosion, good machining properties.	~95 HRB
DURMAT AS-815	C 4.8 / Cr 28 / Si 1.4 / B / Fe bal.	Thermal Spray coatings with high resistance against mineral wear and friction.	~55 HRC
DURMAT AS-816	C 5.1 / Cr 22 / Si 1.7 / Nb 7.0 / Fe bal.	Thermal Spray coatings with high resistance against mineral wear and friction.	~57-61 HRC
DURMAT AS-850	C 2 / Cr 4 / Si 1.4 / W / Mn / Fe + FTC bal.	Fluxed-cored wire with 50% FTC for high abrasion resistant coatings.	~58-60 HRC
DURMAT AS-896	Cu 1.9 / Si 1.1 / Cr 21 / Ni 8 / Mn 1.25 / B 2.25 / Mo 3.2 / C 0.2 / Fe bal.	Flux-cored wire for high temperature corrosion protection and abrasion resistant coatings.	~53 HRC
DURMAT AS-897	Si 1.25 / Cr 14 / Ni 4.5 / Mn 5.5 / B 1.85 / W 26 / Ti ₂ C ₃ 6 / Fe bal	Flux-cored wire for abrasion and wear resistant coatings.	~66 HRC