Product List



Welding and Surfacing Consumables

for Fabrication, Repair & Maintenance, Wear Prevention

Alloys International sell welding consumables and wear-resistant products used in the manufacture, repair and maintenance of industrial machinery. We have a particular focus on life-extension through hardfacing and welding/cladding of exotic materials.

A privately owned Australian business, we've spent over 40 years studying wearmechanisms and investigating the latest technology and materials available around the world to reduce wear and total cost of industrial machinery ownership.



We have experience in Mining, Mineral Processing, Cement, Steel, Pulp & Paper, Recycling, Agriculture, Earth Moving, Construction, Transportation.

Our HQ is in the western suburbs of Melbourne, where we also run our large scale repair and maintenance workshop, Avweld. Here we do all major welding, cladding (including Laser, PTA, MIG) and thermal spray (HVOF, Arc, Plasma) processes, as well as significant robot capacity, machining, grinding, blasting and painting. We operate multiple shifts, so are available around the clock to support the maintenance needs of our customers.

We have stock and distribution available from WA, QLD, NSW and VIC, ensuring you can get the right product, ASAP. This following list is brief, and far from comprehensive. If there is something you can't find, please ask, as only our most popular products are included here.







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Hardfacing Wire & Electrodes



Hardfacing is our expertise. This is just a brief selection of the main products available. Please ask for advice about your particular application.

Product	Form	Description	mm	Pack Size
AI-0538	SMAW Stick	38% Chrome Carbide Hardfacing Electrode for abrasion	3.2	5
	Electrode	resistant applications (equiv AI-1568 wire)	4.0	5
			5.0	5
AI-0543	SMAW Stick	Complex Chrome/Niobium Carbide Electrode for extreme	3.2	5
	Electrode	abrasion applications (Equiv AI-1543 wire)	5.0	
AI-0545	SMAW Stick	Hi temperature complex carbide hardfacing electrode	3.2	5
	Electrode			
AI-0777-W	Composite Oxy	60% Tungsten Carbide Grit/Nickel Matrix composite rods. For	10-12	5
	Rod	oxy welding/brazing. For extreme abrasion applications		
		including ground engaging tools, crushers, shredders. 10-		
		12mm diameter rods. Various carbide grit sizes available.		
AI-0779E	SMAW Stick	Homogenous Tungsten Carbide Electrodes	4.0	5
	Electrode		5.0	5
AI-0799	Floppy Rod Coil	Heterogenous Tungsten Carbide Floppy Rod. 0.7-1.2mm grit	5	5
AI-17600	Gas Shielded	A seamless, copper coated, martensitic 600BH MIG wire for	1.2	16
	Seamless, Metal-	applying crack-free overlays to components subject to	1.2	250
	Cored Hardfacing	combinations of impact and abrasion. Outstanding weldability	1.6	16
	MIG Wire	in all positions, with spatter-free welds possible.	1.6	250
AI-15600	Open Arc Flux	Open arc gasless MIG martensitic Hardfacing wire. It has a	0.9	5
	Cored Tubular	high carbon austenitic steel deposit which is ideal for high	0.9	15
	Hardfacing Wire	surface abrasion and low impact	1.2	15
AI-1568	Open Arc Flux	General purpose chrome carbide hardfacing wire for abrasive	1.2	15
	Cored Tubular	applications. 62HRc.	1.6	15
	Hardfacing Wire	The same chemistry as AbrasaPlate AP-3000.	2.0	12.5
			2.0	25
			2.4	25
			2.8	250
AI-1558	Open Arc Flux	Titanium carbide hardfacing for high impact applications,	1.2	15
	Cored Tubular	particularly in crushers. 58HRc	1.6	15
	Hardfacing Wire		2.4	15
AI-1543	Open Arc Flux	Complex Chrome Carbide with 7% Nb. 62HRc. For high	1.2	15
	Cored Tubular	abrasion/moderate impact	1.6	15
	Hardfacing Wire		1.6	150
			1.6	200
			2.4	15
AI-1558NbV	Open Arc Flux	Complex carbide (Cr, Nb and V carbides) hardfacing with the	1.2	15
	Cored Tubular	addition of manganese to increase impact resistance. Extreme	1.6	15
	Hardfacing Wire	abrasion and impact resistance. 62 HRc	2.4	15
AI-1579Nb	OA Flux-Cored	Complex chrome carbide for high abrasion moderate impact	1.2	15
	Tubular Wire	applications.	1.6	15
AI-1541	Open Arc Flux	40% tungsten carbide wire with a reinforced, hardened, iron-	1.2	15
	Cored Tubular	based matrix. Similar abrasion resistance to previous	1.6	15
	Hardfacing Wire	generation 60% tungsten carbide hardfacing wires	2.4	15
AI-1779VC	Gas Shielded MIG	62% tungsten carbide in a nickel matrix. with added hard	1.2	15
	Hardfacing Wire	carbides in the matrix. The best abrasion resistance available.	1.6	15
AI-TC	Granules	Tungsten Carbide Crusher and Sintered particles for hulk	0.9-1 4	5
		welded Hardfacing. Ideal for use with AI-17600 hardfacing	0.6-0.9	5
		wire matrix. Also available: Al Vibratory Carbide Feeder		-



Nickel-Based Electrodes, TIG/Oxy Rods

Generally used for extreme chemical exposure and high temperature applications. Includes products branded as Hastelloy, Inconel, Monel

Product	Form	Description	mm	Pack Size
AI-0315	SMAW Stick	ENiCrFe2 Inco-weld A Electrodes, for welding Incoloy 800,	2.5	4.54
	Electrode	800HT, Inconel 600, 601. Good for dissimilar welding.	3.2	4.54
			4.0	4.54
			5.0	5
AI-0317	SMAW Stick	ENiCrCoMo-1 Inconel 117, for welding Inconel 617. Also good	3.2	4.54
	Electrode	for dissimilar and high temperature alloys	4.0	4.54
		Also Available: Al-1717 MIG Wire	ļ	
AI-0317T	GTAW TIG Rod	ERNiCrCoMo-1 Inconel 117 TIG wire for welding Inconel 617.	2.4	4.54
		Also good for dissimilar and high temperature alloys	ļ	
AI-0325	SMAW Stick	ENICrMo-3 Inconel 625 Electrodes for welding Incoloy 625,	3.2	5
	Electrode	825 alloys and a range of dissimilar materials.	4.0	5
		Also Available: Al-1725 MIG Wire	ļ	
AI-0325T	GTAW TIG Rod	ERNiCrMo-3 Inconel 625 TIG Rod for welding Incoloy 625, 825	1.6	4.54
		alloys and a range of dissimilar materials.	2.4	4.54
AI-0340B	Bare (Oxy) Rod	ENiCr-A 40HRC Nickel-based Bare (Oxy) Rod for resistance to	4.0	1
		heat, corrosion and galling at high temperatures. Used on	5.0	1
		engine valves & cams, motorcycle shoes.		
AI-0350B	Bare (Oxy) Rod	ENICr-B 50HRC Nickel-based Bare (Oxy) Rod for resistance to	5.0	1
		heat, corrosion and galling at high temperatures. Used on		
		engine valves & cams, motorcycle shoes.		
AI-0360B	Bare (Oxy) Rod	ANiCr-C 60HRC Nickel-based Bare (Oxy) Rod for resistance to	3.2	1
		heat, corrosion and galling at high temperatures. Used on	4.0	1
		engine valves & cams, motorcycle shoes.	6.4	1
AI-0367T	GTAW TIG Rod	ERCuNi Monel 67 TIG wire	1.6	4.5
		Also Available: AI-1767 MIG Wire	2.4	5.0
AI-0376T	GTAW TIG Rod	ERNiCrMo-4 Hastelloy 276 TIG Wire	1.6	5
		Also Available: AI-1776 MIG Wire	2.4	5
			3.2	2.5
AI-0382	SMAW Stick	ENiCrFe-3 Inconel 182. For welding Inconel 600, 601. Excellent	3.2	4.54
	Electrode	high temperature strength and oxidation resistance. (Also	4.0	4.54
		available GTAW TIG Wire) Also Available: Al-1782 MIG Wire		
AI-0390	SMAW Stick	FNiCu-7 Monel 190 70Ni/30Cu Electrodes	25	4 54
	Flectrode	Also Available: Ai-1790 MIG Wire	3.2	4.54
			4.0	4.54
AI-0390T	GTAW TIG Rod	FRNiCu-7 Monel 190 70Ni/30Cu TIG Wire	1.6	2.5
			2.4	4.5
			3.2	2.75
AI-0395	SMAW Stick	ENiCrMo-5 Hastellov C Electrodes	2.5	5
	Electrode		3.2	5
AI-0397	SMAW Stick	ENiMo-7 Hastellov B Electrodes	3.2	4.54
	Electrode			
AI-0399	SMAW Stick	ENi-1 Pure Nickel Electrodes	2.5	4,54
	Electrode	Also Available: Al-1799 MIG Wire	4.0	4.54
AI-0399T	GTAW TIG Rod	ERNi-1 Pure Nickel TIG Wire	1.6	5
			2.4	5
L			·	-





Cobalt-Based (Stellite) Wire, Rods, Electrodes

Excellent all-round properties for harsh environments involving metal-tometal wear, high temperatures up to 1000 degrees, abrasion, impact.

Product	Form	Description	mm	Pack Size
AI-0601-B	Bare	ERCoCr-C Cobalt (Stellite) 1 Rod. For resistance to corrosion and	2.5	5
	(TIG/Oxy)	friction wear at high temperature. 55HRC at room temperature,	3.2	5
	Rod	with excellent hardness retention up to 800°C.	4.0	5
			5.0	5
			6.4	5
АІ-0601-Е	SMAW Stick	ECoCr-C Cobalt (Stellite) 1 Electrode. For resistance to corrosion	2.5	5
	Electrode	and friction wear at high temperature. 55HRC at room	3.2	5
		temperature, with excellent hardness retention up to 800°C.	4.0 5.0	5
			5.0 6.4	5
ΔΙ-1701	MIG Wire	FRCoCr-C Cobalt (Stellite) 1 MIG wire For resistance to	1.2	15
A 1/01		corrosion and friction wear at high temperature, 55HRC at room	1.6	15
		temperature, excellent hardness retention to 800°C.	2.0	10
AI-0606-B	Bare	ERCoCr-A Cobalt (Stellite) 6 Rod. For high temperature	2.5	5
	(TIG/Oxy)	corrosion and abrasion resistance. Good impact resistance.	3.2	5
	Rod	42HRC	4.0	5
			5.0	5
АІ-0606-Е	SMAW Stick	ECoCr-A Cobalt (Stellite) 6 Electrode. For high temperature	2.5	5
	Electrode	corrosion and abrasion resistance. Good impact resistance.	3.2	5
		42HRC	4.0	5
			5.0	5
AI-1706	MIG Wire	ERCoCr-A Cobalt (Stellite) 6 MIG wire. For high temperature	1.2	15
		corrosion and abrasion resistance. Good impact resistance. 42HRC	1.6	15
AI-1706L	MIG	ERC CoCr-A – A low carbon version of Stellite 6. A tough, impact	1.2	15
		and corrosion resistant alloy for use at high temperature.		
AI-0612-B	Bare	ERC CoCr-B Cobalt (Stellite) 12 rod for applications involving	2.5	5
	(TIG/Oxy)	high temperature, corrosion and friction. Good impact	3.2	5
	Rod	resistance and edge retention. 48HRc	4	5
АІ-0612-Е	SMAW Stick	ECoCr-B Cobalt (Stellite) 12 Electrode for applications involving	2.5	5
	Electrode	high temperature, corrosion and friction. Good impact	3.2	5
		resistance and edge retention. 48HRC	4.0 E 0	5
AL 1712	MIG Wire	EPC CoCr-B Cobalt (Stellite) 12 MIG wire for applications	5.0 1.2	5 15
AI-1/12		involving high temperature, correction and friction. Good impact	1.2	13
		resistance and edge retention. 48HRc		
AI-0621-B	Bare	ERC CoCr-E Cobalt (Stellite) 21 rod for applications involving	2.5	5
	(TIG/Oxv)	high temperature, metal to metal wear, corrosion and friction	3.2	5
	Rod	up to temperatures of 1150°C. 32HRc as welded		-
AI-0621-E	SMAW Stick	ECoCr-E Cobalt (Stellite) 21 Electrode for applications involving	2.5	5
	Electrode	high temperature, metal to metal wear, corrosion and friction	3.2	5
		up to temperatures of 1150°C. 32HRc as welded		
AI-1721	MIG Wire	ERC CoCr-E Cobalt (Stellite) 21 MIG wire for applications	1.2	15
		involving high temperature, metal to metal wear, corrosion and		
		friction up to temperatures of 1150°C. 32HRc as welded		

Also available: Stellite 1, 6, 12, 21 for spray and fuse, flame spray, HVOF, PTA, Laser Cladding, castings



Product	Form	Description	mm	Pack Size
AI-0800	Electrode	ECu Pure Copper Electrode	3.2	5
AI-0801	Electrode	ECuAl-A2 Aluminium Bronze Electrode	4.0	5
AI-0808	Electrode	EUs-C General Purpose Bronze Electrode	2.5	5
			3.2	5
AI-1106F	Brazing Rod	Flux Coated Nickel Bronze Brazing Rod	3.2	5
			5.0	5
AI-1106X	Brazing Rod	Nickel Silver Flux Coated Brazing Rod	3.0	5
AI-1107	Brazing Rod	Flux Coated Manganese Bronze Brazing Rod	5.0	5
AI-1108B	Brazing Rod	Tobin Bronze Bare Brazing Rod	5.0	5
AI-1143	TIG Wire	Aluminium 5% Silicon	1.6	5
			2.4	5
AI-1147	TIG Wire	Aluminium 10% Silicon TIG Wire	1.6	5
			2.4	5
			3.2	5
AI-1156	TIG Wire	Aluminium 5% Magnesium TIG Wire	1.6	5
			2.4	5
			3.2	5
AI-1184	IIG Wire	Nickel Aluminium Bronze TIG Wire	1.6	5
AL 440C	TIC Mine	Ciliana Duanza TIC Mina	2.4	5
AI-1186	IIG WIre	Silicon Bronze TIG Wire	1.6	5
AL 1107	TIC Mine	Dhaanhar Dranza TIC Wire	2.4	5
AI-1187	iig wire	Phosphor Bronze Tig wire	1.0	5
AL 1100		A2 Aluminium Pronzo TIG Wiro	2.4	5
AI-1100		Az Aldınındın Bronze no Wire	2.4	5
ΔΙ-1192	TIG Wire	ERCU Deox Conner TIG Wire	1.4	5
/			2.4	5
AI-1743	MIG Wire	ER4043 MIG Wire	1.2	6
Ai-1753	MIG Wire	ER5356 Aluminium Magnesium MIG Wire	0.9	6
			1.2	6
AI-1774	MIG Wire	ER4047 Aluminium 11% Silicon MIG Wire	1.2	7
AI-1784	MIG Wire	ERNiCuAl Nickel Aluminium Bronze MIG Wire	1.2	15
			1.6	15
AI-1786	MIG Wire	ERCuSi-A Silicon Bronze MIG Wire	0.9	15
			1.2	15
AI-1787	MIG Wire	ERCuSnC Phosphor Bronze MIG Wire	1.2	15
			1.6	15
AI-1788	MIG Wire	ERCuAI-A1 Aluminium Bronze MIG Wire	0.9	15
			1.2	15
AI-1789	MIG Wire	ERCuAl-A2 Aluminium Bronze MIG Wire	0.9	15
			1.2	15
			1.6	15
AI-1792	MIG Wire	ERCu Deoxidised Copper MIG Wire	1.2	15
			1.6	15



Low Alloy Welding Wire, Rods, Electrodes

Product	Form	Description	mm	Pack Size
AI-0150	SMAW Stick	Double-coated low-hydrogen electrode developed	2.5	5
	Electrode	especially for the maintenance welding industry. Excellent	3.2	5
		weldability in all positions, including on dirty steels.	4.0	6
			5.0	6
AI-0178	SMAW Stick	E7018-H4R Iron Powder Low Hydrogen Electrode	2.5	5
	Electrode		3.2	5
			4.0	5
AI-0180	SMAW Stick	E8018-B2 Chrome Moly Electrode (also available GTAW)	2.5	5
	Electrode		3.2	5
AI-0190	SMAW Stick	E9018-B3 Chrome Moly Electrode (also available GTAW)	2.5	5
	Electrode		3.2	5
AI-0118	SMAW Stick	E11018MH4 High Strength Electrode (also available GTAW)	2.5	5
	Electrode	(3.2	5
			4.0	5
AI-01EV50-1	SMAW Stick	Bohler Fox S EV50-1 E7018-1 H4R Vacuum Packed Electrodes	2.5	16
	Electrode	(2kg sub-pack, 16kg Carton)	3.2	16
		(4.0	16
AI-17DS46MC	Metal-Cored	Bohler DiamondSpark 46 Seamless all positional metal-cored	1.2	16
	MIG wire	wire for semi- and fully-automatic joint welding of unalloyed	1.2	250
		steels. Spatter-free welding. 40% faster speeds than solid wire.	1.6	16
		with no cleaning required between runs.	1.6	250
AI-16T55HP	SAW Submerged	Bohler DiamondSpark T55HP Seamless Metal Cored Subarc	2.4	25/80
	Arc Wire	Wire. For automated welding with 40% higher speed than solid	3.2	25/80
		wire. Use with fluxes: UV306 UV401 UV418	4.0	25/80
AI-16EM12K	SAW Submerged	Bohler EM12-K Copper coated non alloyed solid subpar wire.	2.0	25
	Arc Wire		2.4	25
			3.2	25
			4.0	25
AI-1700	Solid MIG Wire	ER70-S Copper coated solid MIG wire for general purpose	0.9	15
		fabrication	1.2	15
			1.6	15
AI-1703	Solid MIG wire	ER80S-D2 MnMo Copper coated solid wire for high tensile and	0.9	15
		creep resistant steel	1.2	15
AI-1704	Solid MIG Wire	ER80S-B2 CrMo1 Solid Copper Coated wire for creep resistant	0.9	15
		steels	1.2	15
AI-1705	Solid MIG wire	ER90S-B3 CrMo2 Solid Copper Coated MIG Wire for creep	0.9	15
		resistant steels	1.2	15
AI-1742	Solid MIG Wire	ER110S-1/-G NiCrMo Copper Coated Solid Wire for high tensile	0.9	15
		steels	1.2	15
			1.6	15
AI-1750	Solid MIG Wire	ER80S-B6 CrMo5 Copper coated solid MIG Wire for creep and	1.2	15
		corrosion resistant steels		
AI-1720S-G	Solid MIG Wire	ER120S-G Copper Coated High tensile MIG wire	1.2	15



Stainless Steel Welding Wire, Rods, Electrodes

Product	Form	Description	mm	Pack
AI-0207	SMAW Stick	E307-16 (mod.) Stainless Steel Electrode. High elongation. For joining	2.5	5
	Electrode	dissimilar materials, buffer layer under Hardfacing. Also Available:	3.2	5
		AI-1707 GMAW, AI-0207 GTAW	4.0	5
AI-0208	SMAW Stick	E308L stainless steel electrode for welding 304 stainless steel Also	2.5	5
	Electrode	Available: AI-1708 GMAW	3.2	5
AI-0209	SMAW Stick	E309L Stainless Steel Electrode For high temperature applications	2.0	4
	Electrode	ioining dissimilar materials, buffer laver under Hardfacing, Also	2.5	5
		Available: AI-1709 GMAW, AI-0209T GTAW	3.2	5
			4.0	5
AI-0209-MO	SMAW Stick Electrode	E309MoL-17 Stainless Steel Electrode. Also Available: AI-1709LMo GMAW, AI-0209-LMO-T GTAW	3.2	5
AI-0210	SMAW Stick	E310-16 Stainless Steel Electrode. Also Available: AI-1770 GMAW, AI-	3.2	5
	Electrode	0210-T GTAW	4.0	5
			5.0	5
AI-0226	SMAW Stick	E316L-17 Stainless Steel Electrode (also available GTAW)	1.6	3
	Electrode	Also Available: AI-1716 GMAW, AI-2082 PTAW, AI-0226T GTAW, AI-	2.0	4
		1844 Arc Spray	2.5	5
			3.Z	5
			4.0 5.0	50
AI-0220	SMAW Stick	E2209-16 Duplex Stainless Steel Electrodes (also available GTAW)	3.2	5
	Electrode	Also Available: AI-17220 GMAW, AI-0220T GTAW	4.0	5
AI-0250	SMAW Stick	E312-16 Double Coated Maintenance Grade Stainless Steel	1.6	1.5
	Electrode	Electrode. Excellent for welding dirty, unknown, or difficult-to-weld	2.0	4
		materials. Also Available: AI-1782 GMAW, AI-0250T GTAW	2.5	4
			3.2	5
			4.0	5
AI-0253	SMAW Electrode	253MA Stainless Steel Electrode for high temperature applications. Also Available: AI-17253 GMAW, AI-0253-T GTAW	2.5 3.2	5
AI-02594T	GTAW TIG Wire	ER2594 Super Duplex TIG Wire	1.6	5
			2.4	5
AI-1707	GMAW MIG Wire	ER307 Stainless Steel MIG Wire	1.2 1.6	15 15
AI-1708	GMAW MIG Wire	ER308 Stainless Steel MIG Wire	1.2	15
AI-1708H	GMAW MIG Wire	ER308-H Stainless Steel MIG Wire	1.2	15
AI-1709	GMAW MIG Wire	ER309 Stainless Steel MIG Wire	0.9	15
			1.2	15
Al-1709LMo	GMAW MIG Wire	ER309LMo Stainless Steel MIG Wire	1.2	15
Al-17410	GMAW MIG Wire	ER410 Stainless Steel MIG Wire	1.6	15
Al-17410-NiMo	GMAW MIG Wire	ER410NiMo Stainless Steel MIG Wire	1.2	15
AI-1716	GMAW MIG Wire	ER316LSi Stainless Steel MIG Wire	0.8	5
			0.9	15
			1.2	15
			1.6	5
AL-17220	GMAW MIG Wire	EP2200 Dupley Staipless Steel MIG Wire	1.0	15
71-1/220		בוזבבסי המהובי איני האווה אווה	0.9 1.2	15
AI-17253MA	GMAW MIG Wire	EN 1.4835 253 MA Stainless Steel MIG Wire for high temperature	0.9	15
		applications	1.2	15
AI-172594	GMAW MIG Wire	ER2594 Super Duplex MIG Wire	0.9	15
			1.2	15
AI-17430	GMAW MIG Wire	ER430 Stainless Steel MIG Wire	1.2	15
AI-17347	GMAW MIG Wire	ER347 Stainless Steel MIG Wire	0.9	15
			1.2	15



Cast-Iron Repair Wire and Electrodes

Product	Form	Description	mm
AI-0412-G	SMAW Stick	ENi-CI Graphite coated 97% Nickel electrode for welding cast iron to itself or	2.5
	Electrode	steel when a machineable deposit is required.	3.2
			4.0
AI-0420	SMAW Stick	ENiFe-CI All Positional high strength electrode for welding cast iron.	2.5
	Electrode		3.2
			4.0
AI-0420-G	SMAW Stick	ENiFe-Cl Graphite coated all positional high strength electrode for welding	2.5
	Electrode	cast iron, especially good for dirty substrates	3.2
AI-0435	SMAW Stick	ENiFe-CI DC+ Electrodes	2.5
	Electrode	DIN 8573:ENiFe G23	3.2
			4.0
AI-0440	SMAW Stick	DIN 8573:EFeCG13 Copper coated electrode for welding nodular cast iron.	3.2
	Electrode	Excellent as buttering run for sealing dirty substrates.	4.0
AI-0460	SMAW Stick	ENiFe-CI, DIN 8573:ENiFe1BG23 Copper coated nickel iron electrode for	2.5
	Electrode	welding cast iron. Improved current transfer at lower current. Excellent out-	3.2
		of-position characteristics.	4.0
AI-1755-CI	GMAW MIG Wire	ERNiFe-CI Nickel Iron MIG wire for joining and repairing ductile cast irons,	1.2
		and joining to mild steel. Welds in all position	1.6
AI-1767-CI	GMAW MIG Wire	ERCuNi Monel 67 70Cu-30Ni Cast Iron repair MIG wire. Fully machineable	0.9
		deposit in a single pass, even through fusion line.	1.2
AI-1799-CI	GMAW MIG Wire	ERNi-CI pure nickel cast iron repair wire. Does not contain any iron to pick	0.9
		up hardness from the substrate.	1.2

Plasma-Transferred Arc PTAW and Laser Cladding Powders

PTA welding and Laser cladding provide the lowest dilution of all weld overlay processes. Typically applied robotically, the low dilution allows the full mechanical benefits of the overlay material to be achieved in a relatively thin coating, without dilution from the substrate. In many cases, laser cladding enables a metallurgically-bonded overlay to be applied without subsequent heat treatment being necessary. Many powders are available in multiple cuts for popular systems. Most commonly -150+53, -125+45, -106+25

Product	Description	Pack Size
AI-2001	Stellite 1 Cobalt Based Powder	5
AI-2006	Stellite 6 Cobalt Based Powder	5
AI-2007	307 Stainless Steel powder	5
AI-2012	Stellite 12 Cobalt Based Powder	5
AI-2021	Stellite 21 Cobalt Based Powder	5
AI-20102	Ferritic Hardfacing for abrasion resistant applications.	5
AI-20401	Iron-based martensitic Hardfacing for abrasion resistant applications. Suitable hardchrome	5
	replacement.	5
AI-20706	Impact resistant powder 66HRC	5
AI-2060	Spherical/Crushed 60% Tungsten Carbide/Nickel Powder for applications requiring extreme	5
	abrasion resistance. Matrix hardness 60HRC, Carbide hardness 75-85HRC	
AI-20430	430 stainless steel powder	5
AI-20431	431 martensitic high strength stainless steel powder for restoration of shafts and worn	5
	components	
AI-2052	NiCrSiB powder 50HRC	5
AI-2081	Aluminium Bronze Powder	5
AI-2082	316 stainless steel	5
AI-20625	Inconel 625 nickel based powder	5
AI-20276	Hastelloy C-276 nickel based Powder	5
AI-2080	Triballoy T-800 Cobalt-based alloy with excellent galling/metal-to-metal resistance at high	5
	temperatures. 55-60HRC	
AI-2090	Triballoy T-900 Similar to AI-2080 but with higher ductility. 55-60HRC	5
AI-2096	Hastelloy C Powder.	5



Thermal Spray

Plasma Thermal Spray Powders

DC Plasma thermal spray systems are predominantly used for applying high-melting temperature ceramic coatings. The coatings are generally thin and hard, and used in extreme temperature and corrosion applications. Coatings need to be ground and cannot be machined.

Product	Description	Size	Pack Size
		microns	
AI-1010	Al ₂ O ₃ Alumina powder	-45+22	5
AI-1011	Al ₂ O ₃ /3TiO Alumina/Titania powder	-45+22	5
AI-1015	Nickel/Chrome 80/20 bond powder	-106+45	5
AI-1020	Spherical Aluminium powder	-90+45	5
AI-1025	Chrome oxide ceramic for corrosion protection.	-38+10	5
AI-1033	Magnesium Zirconate 25MgO/75CrO Powder	-90+11	5
AI-1036	Chrome Oxide/Silicon Dioxide/Titanium Dioxide 92Cr ₂ O ₃ -5SiO-3TiO powder	-45+22	5
AI-1087	90Ni/5Al/5Mo super-bond powder90+45µm. Equivalent to Al-1800 arc	-90+45	5
	spray wire.		
AI-1091	Aluminium Bronze powder, low shrink. 90Cu10Al.	-90+45	5
AI-1097	Titanium Dioxide TiO ₂ Powder	-45+22	5

Flame Spray Powders

AI-21xx – Flame spray powders for puffer torch (Colmonoy Fuseweld & Eutectic Eutalloy Torch) -106+20microns AI-22xx – Spray & fuse powder for flame spray (Eutectic Terojet/Terodyne torches) -106+45 microns AI-23xx - Spray & fuse powder for flame spray (Using FP71 Miller, FP73 Uni Spray Jet, Metco 5P & Metco 6P guns) -125+45 microns

Product	Description	Pack Size
AI-2126	Nickel based flame spray powder for application by puffer torch. For repair of steel or	5
	cast iron parts. Excellent colour match to cast iron. Easily machinable. 25-27HRc	
Ai-2134	Fuseweld powder for reclamation of undersized or worn parts. Ideally suited to using	5
	on steel, cast steel, grey cast iron and stainless steels. 30-35 HRc.	
AI-2137	Also known as WC-237. NiCrSiBMo Fuseweld powder. 35-40HRC, can be machined with	
	carbide tools	
AI-2153	Puffer torch fuseweld powder can be applied to grey cast iron, cast steel, steel,	5
	stainless steel for wear resistant applications. 49-53 HRc	
AI-2163	Fuseweld powder that resists the combined effects of wear, corrosion, and oxidation at	5
	elevated temperatures. HRC 57-62.	
AI-2175-W	Tungsten bearing fuseweld powder for application by flame spray, and subsequent	5
	fusing to provide a metallurgical bond with the base metal. For resistance to extreme	
	abrasion, and corrosion.	
AI-2242	Sprayweld spray&fuse NiCrSiB powder, 40HRc, for surfacing parts subject to the effects	5
	of abrasion and corrosion. Possible to machine, best finish achieved by grinding	
AI-2340-W	Self-fluxing spray fuse tungsten carbide powder in nickel matrix, for applications	5
	involving high abrasion and high heat. Excellent resistance to hot corrosion and galling.	
AI-2342-CM	Colmonoy 42 CM	5
AI-2342-CS	Colmonoy 42 CS	5
AI-2369	NiCrSiBCuMo Sprayfuse powder, 65HRC. Excellent resistance to sagging, so thick	5
	coatings can be applied. Excellent resistance to abrasion and high temperatures. Ideal	
	for surfacing of glass bottle molds.	
AI-2380	Colmonoy 8 Spray Fuse Powder	5



Thermal Spray

Arc Spray Wires

Twin-Wire Arc spraying uses a MIG power source to arc two wires together and then blow the molten metal onto the substrate with compressed air. One of the most economical forms of metal spray, it can apply a wide variety of materials very quickly. Popular for restoring worn surfaces; corrosion and wear-resistant coatings over large areas.

Product	Description	mm	Pack Size
AI-1800	The superior bond Wire. 90Ni/5Al/5Mo. Over 75MPa bond strength on	1.6	11.3
	blasted surface.		
AI-1804	Self-bonding nickel-based wire. Can be machined to a feathered edge and	1.6	10
	excellent surface finish. 66MPa bond strength. Low-shrink coating		
	suitable for dimensional restoration, bearing and seal journals.		
AI-1805	Corrosion resistant self-bonding stainless wire for dimensional	1.6	15
	restoration. 57MPa bond strength		
AI-1820	80Ni/20Cr bond wire, for applications not suitable for aluminium.48MPa	1.6	11.3
	bond strength		
AI-1822	420 Stainless steel wire made exclusively for arc spraying. Produces a	1.6	15
	hard, tough coating for bearing journal repairs.		
AI-1830	Low alloy arc spray wire	1.6	15
AI-1833	430 Stainless Steel arc spray wire	1.6	15
AI-1843	4043 Aluminium/5% Silicon Arc Spray wire	1.6	6
AI-1844	316 Stainless Steel arc spray wire	1.6	15
AI-1850-MF	Nickel-based wire for arc spray and subsequent fusing. 50-55HRC.	1.6	10
	Suitable for applications involving severe high-stress abrasion with low		
	impact, <450°C, Exhaust fans, boiler tubes		
AI-1866	Low shrink arc spray wire suitable for high coating thicknesses. Can be	1.6	15
	machined or ground. For applications requiring high coating thickness.		
AI-1867	Copper-Nickel wire, suitable for combining with AI-1822 for a	1.6	15
	machineable, tough coating. Applications: bearing journals, dimensional		
	restoration.		
AI-1870	The ultimate in wear-resistant coatings for a variety of applications in	1.6	15
	service up to 900°C. Outstanding sprayability. Work hardens to 55HRC		
AI-1875	95Ni/5Al Bond Wire	1.6	15
AI-1885	85 Zinc/15 Aluminium for structural corrosion protection. Larger	1.6	15
	diameters also available		
AI-1886	Silicon Bronze for arc spray	1.6	15
AI-1887	Phosphor Bronze for arc spray	1.6	15
AI-1888	Aluminium bronze for arc spray. Suitable for high build thickness and	1.6	15
	corrosion resistance.		
AI-1889	Tin Babbit wire suitable for bearing journal restoration	2.0	6
AI-1892	Deoxidised copper. Popular when mixed with AI-1822 for dimensional	1.6	15
	restoration.		
AI-1893	Aluminium wire for arc spraying. Excellent wire feed characteristics.	1.6	6
	Larger sizes available	2.3	6
		3.2	7
AI-1894	Zinc wire for structural corrosion protection. Larger sizes available	1.6	12



Thermal Spray

High Velocity Oxygen Fuel HVOF Powders

HVOF is generally used for applying thin, hard coatings to restore worn dimensions and prevent further wear. Often used on sealing surfaces, for hydraulic cylinders, boiler tubes, valves and pumps. Alloys have most powders available in multiple cuts, including -53+22 and -45+15 for the major HVOF gun types on the market.

Product	Description				
		Size			
AI-26001	Stellite 1 Powder	5			
AI-26012	Stellite 12 Powder	5			
AI-2601	90WC/10Ni	5			
AI-26021	Stellite 21 Powder	5			
AI-2606	Stellite 6	5			
AI-26332	Tungsten Carbide/Hastelloy C powder for resistance to corrosion and abrasion at high	5			
	temperatures.				
AI-2645	Nickel Chrome Silicon Boron 45-50HRC	5			
AI-2652	Nickel Chrome Silicon Boron 48-52HRC	5			
AI-2662	Nickel Chrome Silicon Boron 55-58HRC	5			
AI-26625	Inconel 625 Nickel-based powder	5			
AI-2672	88 Tungsten Carbide/12 Cobalt for abrasion resistance	5			
AI-2675	75 Chrome Carbide/25 Nickel/Chrome	5			
AI-2680	80 Chrome Carbide/20 Nickel/Chrome	5			
AI-2682	316 Stainless HVOF powder	5			
AI-2685	Tungsten Carbide/Chrome Carbide/Nickel Chrome for corrosive applications requiring	5			
	thin, hard abrasion resistant coatings.				
AI-2686	86 Tungsten Carbide/10 Cobalt/4 Chrome	5			

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ABRASAPLATE[®] Weld OVERLAY WEAR PLATE

Sheet Size

Beads

|| to

Stock Code

AbrasaPlate Chrome Carbide Weld Overlay Wearplate. Available as stock-sheets, or full fabrications. Can be rolled, plasma cut, welded, fixed with welded studs or countersunk bolt inserts

mm kg /m²

HF on

MS

Grade







G	<u>ra</u>	d	es	A١	<u>vai</u>	la	bl	e
			-					

- AP-3000 Chrome Carbide Hardfacing, Cr25+ C3+, (thickness dependent)
- AP-6000 High temperature plate to 600°C. Made to Order
- AP-7000 Higher Chrome. Made to Order
- **AP-X Cross Hatch** 3mm thick Cross Hatch hardfacing in addition to stated thickness. No weld bead direction. Suitable for higher impact applications and self protection due to "rock box" effect
- AP-3S AP-3000 on a 304 stainless steel backing plate for added corrosion resistance
- **AP-XS** Cross hatch on a 304 stainless backing plate for added corrosion resistance
- AP-CF Crack Free Where smooth surface finish is required
- All grades can be machine ground for highly polished surface finish

		3on3	6	48	AP-U3-0303-1530	1.5 x 3.0	1.5	
	4on4	8	65	AP-U3-0404-1530	1.5 x 3.0	1.5		
		4.000	10	01	AP-U3-0406-1530	1.5 x 3.0	1.5	
	40110	10	01	AP-U3-0406-2230	2.2 x 3.0	2.2		
		6006	10	96	AP-U3-0606-1530	1.5 x 3.0	1.5	
		60116	12		AP-U3-0606-2230	2.2 x 3.0	2.2	
		6on8	11	110	AP-U3-0608-1530	1.5 x 3.0	1.5	
			14		AP-U3-0608-2230	2.2 x 3.0	2.2	
		80n6	14	111	AP-U3-0806-1530	1.5 x 3.0	1.5	
8		80110	14		AP-U3-0806-2230	2.2 x 3.0	2.2	
Õ					AP-U3-0808-1530	1.5 x 3.0	1.5	
		PonQ	16	124	AP-U3-0808-2230	2.2 x 3.0	2.2	
4		00110	10	124	AP-U3S-0808-50x2500	50mm x 2.5m	50mm	
					AP-U3S-0808-60x2500	60mm x 2.5m	60mm	
		0on10	10	150	AP-U3-0910-1530	1.5 x 3.0	1.5	
		90110	19	130	AP-U3-0910-2230	2.2 x 3.0	2.2	
		9on16	25	204	AP-U3-0916-2230	2.2 x 3.0	2.2	
		12on8	20	158	AP-U3-1208-2230	2.2 x 3.0	2.2	
		12on12	24	189	AP-U3-1212-2230	2.2 x 3.0	2.2	
		17on12	29	229	AP-U3-1712-1530	1.5 x 3.0	3.0	
					AP-U3-1712-2230	2.2 x 3.0	2.2	
		20on12	32	253	AP-U3-2012-2230	2.2 x 3.0	2.2	
		4on4	11	11 75	AP-U3X-0404-1530	1.5 x 3.0		
-	Ľ	10n6	13	92	AP-U3X-0406-1530	1.5 x 3.0		
ŀ		40110			AP-U3X-0406-2230	2.2 x 3.0		
\times	A I	6on6	15	107	AP-U3X-0606-2230	2.2 x 3.0]	
		6on8	17	120	AP-U3X-0608-1530	1.5 x 3.0		
	2	8on6	17	120	AP-U3X-0806-1530	1.5 x 3.0		
	ך צ	9on10	22	160	AP-U3X-0910-1530	1.5 x 3.0	Ν/Δ	
Č	כ		22	100	AP-U3X-0910-2230	2.2 x 3.0		
		12on12	27	202	AP-U3X-1212-1530	1.5 x 3.0		
L	Ц	6on6	12	97	AP-UCF-0606-1428	1.4 x 2.8		
Ъf	Ť	9on7	16	125	AP-WCF-0907-1030	1.0 x 3.0		
AP- RACK	10on10	16	125	AP-UCF-1010-1428	1.4 x 2.8			
AP-3	s	60N6	12	96	AP-U3S-0606-1930	1.9X3.0	1.9	
			-				-	
AP->	(S	30N6	12	84	AP-U3XS-0306-1930	1.9 x 3.0	1.9	
		60N6	15	107	AP-U3XS-0606-1930	1.9X3.0	1.9	







AbrasaPipe Chrome Carbide Hardfaced pipe helps extend the life of pipes in abrasive applications. Can be formed, welded, lobster backed, and fabricated to sizes as small as 50mm ID. Stocked pipes are typically welded onto Sch40 mild steel pipes, but can be made to any custom size required.

Stock Code	Pipe Size	OD (mm)	WT (mm)	HF Thickness (mm)	ID (mm)	Stocked Lengths (m)
AP-U3P-0406-089X1000	3″ 80NB	89	6	4	69	1.0
AP-U3P-0406-114X1000	4" 100NB	114	6	4	94	1.0
AP-U3P-0606-168X1500	6" 150NB	168	6	6	144	1.5
AP-U3P-0608-219X1500	8" 200NB	219	8	6	191	1.5
AP-U3P-0608-273X1500	10" 250NB	273	9	6	243	1.5
AP-U3P-0610-323X1500	12" 300NB	323	10	6	291	1.5
AP-U3P-0811-356X1500	14" 350NB	356	11	8	318	1.5
AP-U3P-0912-406X1500	16″ 400nb	406	12.7	10	360	1.5
AP-U3P-0910-426X1500	16" 400NB	426	10	9	388	1.5





sales@alloysint.com.au



Cast Wear Products

- Bimetallic wear parts, with high chrome "white-iron" hard metal brazed onto mild steel backing. •
- Chocky Blocks are notched for easy breaking into correct sizes •
- Can be welded with mild steel consumables •
- Excellent for high impact applications •

Excellent for application in-situ, quickly •

	Item	Stock Code	Size	Weight (kg)
New in Check	Chocky Blocks	AI-CB25-N	240x25x23mm (15on8)	0.9
NOW IN STOCK		AI-CB40-N	240x40x23mm (15on8)	1.5
-Chocky Blocks		AI-CB50-N	240x50x23mm (15on8)	1.9
-Wear Buttons		AI-CB65-N	240x65x23mm (15on8)	2.5
-Grizzly Bars		AI-CB90-N	240x90x29mm (17on12)	3.5
-Hammer Tips		AI-CBWB-50	50mm diameter (17on10)	0.4
	Wear Buttons	AI-CBWB-60	60mm diameter (17on10)	0.6
		AI-CBWB-75	75mm diameter (17on10)	0.9
		AI-CBWB-90	90mm diameter (20on12)	1.5











LOCTITE Wearing Range

Winning the Abrasion Battle: New Solutions to Old Issues

_Stock Code	Description	Size (kg)	Coverage @6mm thick (m ²)
NEW PC 7332 New PC 74 New PC 7	LOC-7332 Silicon Carbide Pneu-Wear. Silicon carbide filled 2k epoxy with extremely high dry/wet abrasion resistance to 90°C wet.	10kg	0.8
	LOC-PC9593 Fast Cure High Impact Wearing Compound. Alumina/Silicion Carbide 2K epoxy compound. Rubber toughened matrix to resist impact and coarse particle abrasion. Fast cure within 4 hours, east to mix and low odour.	3kg	0.8
Cerry FC B3 FC FC F	LOC-PC9313 High Impact Wearing Compound. Rubber toughened ceramic based 2K epoxy compound. Extremely resilient to impact and sliding abrasion. Trowelable and suitable for application on overhead and vertical surfaces. Suitable for applications in screens, chutes, hoppers and others	11.34	0.9
PC 7218 To a prime With Market With Market	LOC-PC7218 Wearing Compound. Ceramic based 2K epoxy compound. Extremely resilient to sliding abrasion. Protects metals from coarse particle abrasion. Easy to mix and applied by trowel	10kg	0.8
Correct PC 7227 KT Marco Correct Correction	LOC-PC7227/LOC-PC7228 Brushable Ceramic Grey or White. Ceramic and silicon carbide-filled provides maximum protection against erosion & corrosion. Ultra-smooth brushable consistency with superior adhesion to metal surface. Use by itself or as a top coat over LOCTITE metal repair products. Ideal for applications in cooling water pumps, valves, heat exchangers etc	1kg 2kg	1m²/kg/0. 5mm thick
	LOC-PC7255 Sprayable Ceramic. Ceramic-filled to protect against erosion & corrosion. > Ultra-smooth and sprayable version provides high gloss, low friction finish. Superior adhesion on a wide range of metal substrate High wet temperature resistance suitable for applications in Pumps, Heat Exchangers, Tanks and vessels	1125m 	1.6
ACCESS OF ACTION	LOC-PC7350 Conveyor Belt Repair Compound Self-leveling, highly flexible, excellent adhesion. Easy-to-use and fast curing in 2 hrs. Excellent elongation and high peel strength > Excellent choice for on-site repairs, such as conveyor belts and other rubber parts	400ml	0.06
NEW	LOC-7383 High Impact Abrasion Resistant Compound100% solid two component room temperature cure polyurethane compound > High abrasion and impact resistance > Trowelable and conforms to overhead and irregular surfaces, won't sag or shrink > Ideal for slurry pumps, floatation cells and other related equipment	1kg	1.2
Actine For a state For a stat	LOC-EA3478 Superior Metal Two-part ferro silicon based epoxy > Machinable and fast cure within 6 hrs @ 25°C > High Comprehensive strength of 124 N/mm2 (18,000 psi) and Hardness of Shore D 86 > Ideal for rebuilding out worn out pumps, heat exchangers, machine beds, pipes and others, across many industries	0.5kg 1.0kg	0.02
LOC-PC7222	Wear Resist Putty – Ceramic Filled, ideal for repairing surfaces prior to to to top coat of brushable ceramic. 160°C high temperature resistant.	1.35kg	1.0



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