

Hard surfacing, maintenance and repair.

A family of nickel-based alloys that offers excellent corrosion, abrasive wear, and high-temperature oxidation resistance. Their low melting point (under 2000°F) enables overlays to be applied with minimal dilution and base metal distortion.

Alloys are self-fluxing and are easily applied by OAW (Oxyacetylene), GTAW (Tig), SMAW (Coated Electrodes), PTA and flame spray on clean base metals.

Nickel alloys can be applied to most base metals, cast irons, steels, stainless steels, nickel and cobalt alloys and others.

PMA's unique sintered powder metallurgy process allows for manufacture of diameter rods from 5/16" (0.31") down to 1/32" (0.031") (7.94mm to 0.794mm).

ROCKWELL C		NOMINAL CHEMISTRY				MELT TEMP. °F/°C
VERSAIloy® 60 AWS A5.13 NiCr-C	57-61	C	0.74	B	3.5	1900°/1038°
		Cr	14.0	Fe	4.5	
		Si	4.55	Ni	Bal	
VERSAIloy® 50 AWS A5.13 NiCr-B	48-52	C	0.67	B	3.25	1950°/1066°
		Cr	13.5	Fe	4.25	
		Si	4.25	Ni	Bal	
VERSAIloy® 40 AWS A5.13 NiCr-A	38-42	C	0.45	B	2.5	2000°/1093°
		Cr	11.0	Fe	2.25	
		Si	2.25	Ni	Bal	
VERSAIloy® 30	30-55	C	0.10	B	1.9	1975°/1079°
		Cr	-	Fe	1.0	
		Si	3.5	Ni	Bal	
VERSAIloy® 25	23-28	C	0.10	B	1.6	1975°/1079°
		Cr	-	Fe	1.0	
		Si	3.2	Ni	Bal	
VERSAIloy® 15	14-18	C	0.10	B	1.4	2000°/1093°
		Cr	-	Fe	1.0	
		Si	2.5	Ni	BalΩ	