



ELECTROLESS NICKEL – Boules Morcos, Regional Product Line Manager

<i>Technology</i>	<i>Process Name</i>	<i>Properties</i>	<i>Approvals</i>	<i>Comments</i>
HIGH PHOS EN	NIKLAD SUPREME	Latest generation of lead-free high phosphorus EN (10.5-12 weight percent). The process offers distinct level of stability & produces fine grained deposits.		Cad & lead free. Higher than average brightness & smoothness of deposit.
	OMG 9153	High phosphorus EN process (11-12 weight percent).		Cadmium & lead free.
	VAND-ALOY 4200	Conventional high phosphorus EN process (10-12 weight percent). Suitable for a wide range of applications due to its multiple replenishment options	Amphenol Denso	Lead stabilized but still Rohs compliant. Oil & Gas preferred along with enFinity.
MID PHOS EN	NIKLAD 847	Cadmium & lead free, bright, low medium phosphorus EN process (5-8 weight percent)		Low Mid Phos. Brightest deposit
	OMG 9155	Cadmium & lead free, bright, low medium phosphorus EN process (5-7 weight percent).		Low Mid Phos, Semi Bright
	ENPLATE EN 806	Cadmium & lead free, semi-bright, medium phosphorus EN process (7-10 weight percent).		High Mid Phos. Semi bright
	NIKLAD 849	Cadmium & lead free, bright, medium phosphorus EN process (7-10 weight percent).		High Mid Phos, Bright





LOW PHOS EN	NIKLAD 824	Cadmium & lead free low phosphorus EN process (1-3 weight Percent)		True Low Phos. Best for blackening and soldering
	NIKLAD SILK	PFOS-free dispersion for composite EN + Boron Nitride composite coatings.		Low coF. Best for high temperature applications
COMPOSITE EN	NIKLAD ICE	PFOS-free PTFE dispersion for composite EN+ PTFE coatings.		Just the Dispersion for non stick and low coF. Low temp applications below 500F
	NIKLAD SUPREME PTFE	Base Nickel process used in conjunction with the Niklad ICE to produce EN+PTFE composite coatings.		Used in conjunction with ICE. Lead & cad free
	ENFINITY	A family of long life nickel/phosphorus EN processes.		12LF, 9LF full proprietary
SPECIALTY SYSTEMS	ENPLATE AL 100	Hypophosphite-reduced, low temperature, alkaline EN strike for aluminum.		EN strike for zincated aluminum. Ammoniated
	ENPLATE 4372	Ternary EN process that produce nickel, cobalt & phosphorus alloy.		Exceptional wear performance. Does contain Cad
	NIKLAD 752	DMAB-reduced, low boron EN process (0.25-0.5 weight percent boron). Near neutral operating pH.		
	OMG 9157	DMAB-reduced, high boron EN process (3-6 weight percent). Near neutral operating pH.		
	NIKLAD 812	Ternary EN process that produce nickel, tin & phosphorus alloy.		Exceptional NSS & SO ₂ performance. Challenging to operate

