

COATINGS LIST

METAL ALLOY, CARBIDE, CERAMIC, AND VAPOR DEPOSITION COATINGS

Metal Alloy Coatings

Name	Process	Hardness (Rc)	Thickness	Finish (RMS)	Application Data
PK-6	HVOF	----	.075"	10-15	<ul style="list-style-type: none"> ●EQUIVALENT TO STELLITE 6® ●USEFUL IN HIGH WEAR APPLICATIONS ABOVE 1000°F
PK-62	HVOF	55-60	.075"	10-15	<ul style="list-style-type: none"> ●STANDARD NICKEL CHROME FOR FRACKING PLUNGERS ●CAN BE FUSED FOR SUPERIOR BOND TO SUBSTRATE
PK-70	HVOF	55-60	.040"	10-15 1-2 (SF)	<ul style="list-style-type: none"> ●SPECIFICALLY DESIGNED TO PROVIDE A WEAR RESISTANT CONDUCTIVE SURFACE CAPABLE OF CONVEYING FIBER OPTICS ●GOOD FOR REDUCING STATIC ELECTRICITY BUILD UP ●CAN BE APPLIED TO ANY METALLIC SUBSTRATE ●CAN BE POLISHED (SF) TO A MIRROR-LIKE FINISH
PK-200	Sub-Arc	50-55	.125"	---	<ul style="list-style-type: none"> ●DEPOSITS CHECK-FREE ON STEEL ●MODERATELY HARD AND WEAR RESISTANT ●GOOD IMPACT RESISTANT – MINIMIZES GRIPPER DAMAGE ●EXCELLENT FOR BOTH FERROUS AND NON-FERROUS WIRE DRAWN IN SOAP. ●GOOD FOR GREASE DRAWN FERROUS WIRE UP TO 5/8" DIA. ●GROOVING CAN BE RE-WELDED TO YIELD 5-6 REGRINDS
PK-400	Arc Spray	35-40	.100"	---	<ul style="list-style-type: none"> ●STAINLESS METALLIZING COATING DESIGNED TO ACCOMMODATE LARGE DIAMETER WIRE ●EXCELLENT FOR WIRE DIAMETER OVER 3/4" ●MOST FORGIVING, ECONOMICAL MATERIAL ●IDEAL FOR PLATING QUALITY AND SOFT ALLOY WIRE DRAWING APPLICATIONS
PK-503	Sub-Arc	55-60	.125"	---	<ul style="list-style-type: none"> ●DEPOSITS WITH "HEAT CHECKING" PATTERN ●OFFERS THE LONGEST WEAR LIFE FOR ALL CARBON STEELS DRAWN IN DRY SOAP ●GROOVING CAN BE RE-WELDED TO YIELD 3-4 REGRINDS
PK-920	HVOF	55-60	.125"	10-15 1-2 (SF)	<ul style="list-style-type: none"> ●NICKEL CHROME BORON COATING ●EXCELLENT FOR NON-FERROUS DRAWING APPLICATIONS ●CAN BE POLISHED (SF) TO A MIRROR-LIKE FINISH ●CAN BE FUSED FOR SUPERIOR BOND TO SUBSTRATE
PK-1000	HVOF	30-35	.100"	10-15	<ul style="list-style-type: none"> ●ALUMINUM/BRONZE – LOW TO MODERATE WEAR RESISTANCE ●IDEAL FOR PROBLEM APPLICATIONS WHERE CONVENTIONAL SURFACE COATINGS MARK WIRE
PK-3000	HVOF	30-35	.050"	10-15	<ul style="list-style-type: none"> ●NICKEL BASED - MODERATE WEAR RESISTANT COATING. ●HIGH CONDUCTIVITY PROPERTIES ●LUBRICIOUS AND IDEAL FOR SLIDING WEAR APPLICATIONS ●IDEAL FOR ROLL TYPE MULTI-WIRE ANNEALERS ●CAN BE APPLIED TO A WIDE RANGE OF METALLIC SUBSTRATES INCLUDING STEEL, ALUMINUM AND BRONZE

Carbide Coatings

Name	Process	Hardness (Rc)	Thickness	Finish (RMS)	Application Data
PK-10	HVOF	60-65	.030"	As-Sprayed	<ul style="list-style-type: none"> ●LARGE GRAIN TUNGSTEN CARBIDE PARTICLE COATING ●HARD AND WEAR RESISTANT ●ECONOMICAL/LOW COST SOLUTION TO SEVERE WEAR APPLICATIONS ●REPLACES KNURLING ON FEED AND DRIVE ROLLS ●CAN BE APPLIED TO BOTH NEW AND WORN ROLLS ●PARTICLE SIZE CAN ADJUSTED TO SUIT THE APPLICATION REQUIREMENTS
PK-75	HVOF	55-60	.100"	10-15 2-3 (SF)	<ul style="list-style-type: none"> ●TUNGSTEN CARBIDE HARD COATING WITH GOOD OXIDATION AND CORROSION RESISTANCE ●DIRECT REPLACEMENT FOR CHROME PLATING ●CAN BE POLISHED (SF) TO A MIRROR-LIKE FINISH ●USEFUL FOR THE REBUILDING SEAL AND BEARING AREAS ON SHAFTS
PK-675	HVOF	55-60	.080"	10-15 1-2 (SF)	<ul style="list-style-type: none"> ●SUPERIOR WEAR RESISTANT COATING ●DEVELOPED FOR USE WITH RED METAL ALLOYS ●VIABLE LOW COST ALTERNATIVE TO SOLID CERAMICS WITHOUT THE INHERENT BREAKAGE OR THERMAL SHOCK PROBLEMS ●CAN BE POLISHED (SF) TO A MIRROR-LIKE FINISH ●USED ON DRAW RINGS, CAPSTANS, SHEAVES, AND STEP CONES ●CAN BE FUSED FOR SUPERIOR BOND TO SUBSTRATE
PK-700	HVOF	60-65	.080"	10-15 1-2 (SF)	<ul style="list-style-type: none"> ●MOST VERSATILE TUNGSTEN CARBIDE HARD COATING ●EXCELLENT WEAR RESISTANCE PROPERTIES ●IDEAL FOR HIGH WEAR APPLICATIONS WITH CRITICAL FINISH REQUIREMENTS. ●CAN BE POLISHED (SF) TO A MIRROR-LIKE FINISH ●GROOVING CAN BE GROUND TO YIELD 1-2 REGRINDS ●CAN BE APPLIED TO SUBSTRATES AS THIN AS .100" ●CAN BE FUSED FOR SUPERIOR BOND TO SUBSTRATE
PK-730	HVOF	60-65	.080"	10-15 1-2 (SF)	<ul style="list-style-type: none"> ●PROPRIETARY COATING DEVELOPED FOR PUMP PLUNGERS ●OFFERS BEST PLUNGER LIFE IN THE FRACKING INDUSTRY ●IDEAL FOR HIGH WEAR APPLICATIONS WITH CRITICAL FINISH REQUIREMENTS. ●CAN BE POLISHED (SF) TO A MIRROR-LIKE FINISH ●CAN BE FUSED FOR SUPERIOR BOND TO SUBSTRATE
PK-750	HVOF	65-70	.070"	10-15	<ul style="list-style-type: none"> ●SUPERIOR WEAR RESISTENT COATING ●SIMILAR PROPERTIES AS PK-700, EXCEPT HAS A HIGHER CONCENTRATION OF TUNGSTEN CARBIDE ●EXCELLENT FOR HIGH WEAR APPLICATIONS (IE. DOUBLE DECK BLOCKS AND HIGH SPEED WIRE DRAWING EQUIPMENT) ●USED EXCLUSIVELY IN THE NEW BLOCK RESTORATION PROCESS REFERRED TO AS "RESTORE AND RE-GRIND"
PK-777	HVOF	55-60	.080"	10-15	<ul style="list-style-type: none"> ●CHROME CARBIDE COATING ●EXCELLENT FOR HIGH TEMPERATURE, ABRASION AND SLIDING WEAR ●IDEAL FOR LARGE DIAMETER NON-FERROUS WIRE DRAWING APPLICATIONS (IE. COPPER ROD BREAK DOWN)
PK-800	HVOF	70-75	.050"	10-15 1-2 (SF)	<ul style="list-style-type: none"> ●TUNGSTEN CARBIDE IN A COBALT MATRIX ●VERY DENSE, SUPERIOR HARD WEAR RESISTANT COATING ●BEST USED "AS SPRAYED" IN HIGH WEAR AND SLIDING WEAR APPLICATIONS

Ceramic Coatings

Name	Process	Hardness (Rc)	Thickness	Finish (RMS)	Application Data
PK-1500	Plasma	65-70	.030"	10-15 2-3 (SF)	<ul style="list-style-type: none"> ● CHROME OXIDE-SILICA COMPOSITE ● HARD, DENSE WEAR RESISTANT COATING ● NON-CONDUCTIVE, GOOD IN CHEMICAL AND CORROSIVE ENVIRONMENTS ● IDEAL FOR HIGH WEAR ROLLS, SHEAVES AND SMALL CAPSTANS CAN BE GROUND TO ACHIEVE A SMOOTH SUPERIOR FINISH
PK-1800	Plasma	60-65	.030"	10-15	<ul style="list-style-type: none"> ● CHROME OXIDE COATING ● SIMILAR PROPERTIES TO PK-1500, EXCEPT LESS HARD, AND LESS RESISTANT TO IMPACT ● CAN BE GROUND TO ACHIEVE SMOOTHER FINISHES ● EXCELLENT ENGRAVING PROPERTIES ● IDEAL FOR ROLLS USED IN THE PRINTING INDUSTRY
PK-2000	Plasma	30-35	.030"	---	<ul style="list-style-type: none"> ● ZIRCONIUM OXIDE COMPOSITE COATING ● VERY GOOD THERMAL BARRIER PROPERTIES ● EXCELLENT FOR HIGH TEMPERATURE, CORROSIVE ENVIRONMENTS WITHOUT MOLECULAR DEGRADATION ● USEFUL UP TO 2000°F ● IDEAL FOR CRITICAL INTERNAL GAS AND DIESEL COMBUSTION ENGINE PARTS

Vapor Deposition Coatings

Name	Process	Hardness (Rc)	Thickness	Finish (RMS)	Application Data
PK-4000X	Vapor	Note ¹	.000080" To .000160"	Note ²	<ul style="list-style-type: none"> ● DIAMOND-LIKE-CARBON (DLC) ● HIGH HARDNESS - LOW COST SURFACE ENHANCEMENT FOR VOLUME TOOL STEEL AND STAINLESS STEEL APPLICATIONS ● APPLIED 2 TO 4 MICRONS (80 TO 160 MILLIONTHS IN.) THICKNESS WITH ZERO DISTORTION ● EXCELLENT PROTECTION FROM CHEMICAL DETERIORATION ● VERY LOW COEFFICIENT OF FRICTION ● HIGH ELECTRICAL RESISTIVITY ● HIGH DIELECTRIC STRENGTH ● VERY GOOD THERMAL CONDUCTIVITY

Note¹: Enhances hardened substrate.

Note²: Conforms to substrate.