

FREQUENTLY USED COATINGS

COATING DESIGNATION	NOMINAL CONSTITUENTS	COMMENTS
	PLASMA SPRAYS	
USSE-115-P	Molybdenum	Hardness, 350 DPH Bond Strength, 8300 psi
USSE-280-P	Cobalt-Chromium-Aluminum-Yttrium (Co-Cr-Al-Y)	Bond strength 5000 psi
USSE-462-P	Tungsten-Carbide Chrome-Carbide Nickel	Hardness, 800 DPH Bond strength, 8700 psi Porosity, less than 3%
USSE-601-P	Aluminum Oxide	Hardness, 1100 DPH Bond strength, 7000 psi Porosity, less than 4%
USSE-660-P	Zirconium Dioxide-Yttria	Hardness, 260 DPH Bond varies between 2200 psi and 6300 psi
	THERMAL HVOF COMBUSTION SPRAYS	
USSE-205-M	Stellite 6-type Alloy	Hardness, 390 DPH Bond strength, 11,000 psi
USSE-230-M	Hastelloy-B-2 Type Alloy	Hardness, 315 DPH Bond strength, 10,000 psi
USSE-231-M	Hastelloy-C-276 Type Alloy	Hardness, 170 DPH Bond strength, 10,000 psi
USSE 282-M	Cobalt-Chrome-Aluminum-Yttrium (Co-Cr-Al-Y)	Hardness, 170 DPH Bond strength, 8000 psi
USSE-422-M	Cr3 C2-Ni Cr	Hardness, 870 DPH Porosity, less than 1% Bond strength, 10,000 psi
USSE-445-M	WC-9 Co	Hardness, 1220 DPH Porosity, less than 1% Bond strength 11,000 psi
USSE-475-M	Tungsten Carbide 10 Cobalt-4Chrome	Hardness, 390 DPH Bond strength, 11,000 psi
	WIRE TORCH	
USSE-118-W	Stellite 6-Type Alloy	Hardness, 390 DPH Bond strength, 4000 psi
USSE-206-W	Molybdenum	Hardness, 245 DPH Bond strength, 6000 psi
USSE-240-W	Monel-type composition	Hardness, 150 DPH Bond strength, 4300 psi
USSE-257-W	Nickel-Chrome	Hardness, 195 DPH Bond strength, 4000 psi