

## Coating Options

	Sintered Coatings - Memphis			Sprayed Coatings - Detroit		
	Spherical Beads	Asymmatrix®	Osseomatrix®	Thermal Plasma Spray	HA	Rough Thermal Plasma Spray
Proprietary or trade-secret?	Trade-secret methods	Branded, trade-secret methods	Branded, trade-secret methods	Proprietary	Proprietary	Proprietary
Materials	Cp Ti on Ti alloy CoCr on CoCr	Cp Ti on Ti alloy CoCr on CoCr	Cp Ti on Ti alloy	Cp Ti on Ti alloy Cp Ti on CoCr Cp Ti on TiCarbide	HA on Ti alloy HA on CoCr HA on SS	Cp Ti on Ti alloy Cp Ti on CoCr
Attachment method	High temperature sintering	High temperature sintering	High temperature sintering	Plasma Spray	Plasma Spray	Plasma Spray
Macro-texture	Smooth Moderately rough	Rough	Smooth Rough	Rough	Smooth	Rough
Porosity Range (%)	30 – 50	50 – 70	45 – 75	30 - 50	Dense Coating	30 - 50
Pore size range (µm)	100 – 300	100 – 300	200 – 600	80 - 300	Dense Coating	100 - 300
Coating Thickness, in	>0.020	>0.020	>0.030	0.005 – 0.038	25 – 75 µm	0.025 – 0.035
Tensile pull-off strength	>5000 psi	>5000 psi	>2900 psi	> 5000 psi	> 7400 psi	> 5000 psi
Static shear strength	>2900 psi	>2900 psi	>2900 psi	> 2900 psi	> 2900 psi	> 2900 psi
Fatigue strength	Moderate reduction	Moderate reduction	Moderate reduction	Moderate reduction	Moderate reduction	Moderate reduction
Examples						