

LINCORE® 57-G PRODUCT OVERVIEW

	Lincore® 50	Lincore® 55	Lincore® 55-G	Lincore® 57-G	Lincore® 60-O	Lincore® 60-G	Lincore® 70-G	Lincoln® SHS® 9500	Lincoln® SHS® 9700	Lincoln® SHS® 9800	Lincoln® SHS® 9192
Abrasion	Delivers an abrasion resistant deposit, even under conditions of moderate impact	Delivers a deposit which resists metal-to-metal rolling or sliding wear as well as mild abrasion	Produces a deposit which resists metal-to-metal wear and mild abrasion	Produces a deposit which resists metal-to-metal wear and high abrasion	Deposits feature higher alloy levels than to resist both abrasion and moderate impact	Deposits feature higher alloy levels than to resist both abrasion and moderate impact	Exceptional wear resistance with deposits that last approximately 2-3 times longer than most chrome carbide and complex carbide alloys, especially in wet abrasion applications	High resistance to abrasion and galling	Provides exceptional wear resistance lasting significantly longer than most chrome carbide and complex carbide alloys	Exceptional resistance to severe sliding abrasion	Extreme resistance to abrasion
Base	Can be used on low carbon, medium carbon, low alloy, manganese and stainless steels	To be used on carbon steel, low alloy steel and manganese steel	To be used on carbon steel and low alloy steel	To be used on carbon, low alloy, manganese and stainless steels and cast iron	To be used on carbon, low alloy, manganese, stainless steels and cast iron	To be used on carbon, low alloy, manganese and stainless steels and cast iron	Can be used on carbon and low alloy steel parts	Can be used on carbon and low alloy steel parts	Maintains high hardness after exposure to elevated temperature	Can be used on carbon and low alloy steel parts	Can be used on carbon and low alloy steel parts
Layer	Deposit is limited to four layers	Unlimited layers with proper preheat and interpass temperatures and procedures	Unlimited layers with proper preheat and interpass temperatures and procedures	Unlimited layers with proper preheat and interpass temperatures and procedure	Deposit is limited to two layers	Deposit is limited to two layers	Deposit is limited to two layers	Deposit is limited to two layers	Deposit is limited to two layers	Deposit is limited to two layers	Deposit is limited to two layers
Cracking			May have check cracking	May have check cracking		Less susceptible to check cracking		Minimal stress relief cracking when applied to plain carbon and low alloy steels	Stress relief cracks typical	Stress relief cracks typical	Stress relief cracks typical
Splatter			Medium Splatter, & slag	Medium splatter		Low Splatter					
Bead			Nice weld bead	Nice weld bead		Clean weld bead		SHS9500U features a unique uniform glass-forming melt chemistry that allows high undercooling to be achieved during welding. This results in considerable refinement of the crystalline microstructure down to a near nanoscale (400 nm length scale) range.			
Cost	Larger wire diameter sizes may be used for the submerged arc process				Can be used at temperatures up to 704°C (1300°F)	Can be used at temperatures up to 704°C (1300°F) creating a higher impact resistance		Lower cost while maintaining near nanoscale (submicron) microstructure	Lower cost while maintaining near nanoscale (submicron) microstructure	Provides longer lasting wear life than most chrome carbide and complex carbide alloys	
Other	The .045" & 1/16" (1.1 & 1.6mm) diameters are especially suitable for overlaying thin gauge materials, building up edges, horizontal stringer beads on sloped surfaces, or where minimum heat input is required.		The deposit results in an even harder material when used with the Bulk Tungsten Carbide process	The deposit results in an even harder material when used with the Bulk Tungsten Carbide process. It's Martensitic		Higher Alloy levels	Great for high value applications where downtime is costly or replacement parts are expensive	Fe-CrNb-BC (15% alloy)	Fe-CrNb-BC (24% alloy)	Fe-CrNbMo-BC (32% alloy)	Fe-CrNbMoMnW-SiBC (43% alloy)