

MCKAY®

PREMIUM HARD SURFACING PRODUCTS



	TYPICAL APPLICATIONS	RECOMMENDED MCKAY PRODUCT WIRE		ADDITIONAL INFORMATION
ABRASION		HARDALLOY®	TUBE-ALLOY®	
<p>For Low Stress Scratching Abrasion: Use carbide-containing alloys, particularly chrome-carbide</p>	Agricultural implements, classifiers, screens, slurry pump nozzles, sand slingers, chutes, tampers	HARDALLOY 155 HARDALLOY 140 HARDALLOY 40 TiC	TUBE-ALLOY 255-0 TUBE-ALLOY 240-0	<p>INCREASING ABRASION RESISTANCE ↑</p> <p>INCREASING IMPACT RESISTANCE ↓</p>
<p>For High Stress Abrasion: Use martensitic and/or carbide-containing alloys</p>	Augers, pulverizers, hammers, roll crushers, ball & rod mills, shredders, scraper blades	HARDALLOY 40 TiC	TUBE-ALLOY 240-0 TUBE-ALLOY 258 TiC-0 TUBE-ALLOY 218 TiC-0 Vertiwear 600	<ul style="list-style-type: none"> • Gas-shielded, flux cored all-position wire
<p>For Gouging Abrasion: Use tough, carbide-containing alloys, preferably austenitic manganese for this combination of impact and wear</p>	Dragline buckets, power shovel buckets, clam shell buckets, gyratory rock crushers, roll crushers and jaw crushers	HARDALLOY 118 Chrome-Mang HARDALLOY 140	TUBE-ALLOY 218-0 TUBE-ALLOY AP-0 Vertiwear AP TUBE-ALLOY 240-0 TUBE-ALLOY 258 TiC-0	<ul style="list-style-type: none"> • Build-up products • Overlay products
METAL-TO-METAL WEAR		HARDALLOY®	TUBE-ALLOY®	
<p>Use martensitic alloys.</p> <p><small>Refer to the McKay Submerged Arc Guide for a complete list of submerged arc wires.</small></p>	Shears, dies, mandrels, broaches, punches, pulleys, knives, guides, skids, undercarriage components, gear and sprocket teeth, mine car wheels, coupling boxes, railroad rail ends and crossings	HARDALLOY 58 HARDALLOY 61 HARDALLOY M-932 HARDALLOY 32	TUBE-ALLOY 258-0 Armorwear Vertiwear 600 TUBE-ALLOY 242-S TUBE-ALLOY Buildup-G/O	<p>INCREASING HARDNESS ↑</p>
IMPACT		HARDALLOY®	TUBE-ALLOY®	
<p>Austenitic manganese steels are your best choice due to their work-hardening characteristics. Martensitic alloys offer moderate impact resistance.</p>	<p>Railroad frogs and crossings, impact hammers, coupling boxes, crusher rolls, impactor bars</p>	HARDALLOY 118 Chrome-Mang	TUBE-ALLOY 218-0 TUBE-ALLOY AP-0 Vertiwear AP	<ul style="list-style-type: none"> • For manganese steel components • For manganese steel or mild steel
		HARDALLOY 119 HARDALLOY 121	TUBE-ALLOY 219-0	• For railroad applications
		HARDALLOY 32	TUBE-ALLOY Buildup-0	• For mild steel only

