

# CarboKlad™ CR33

## Data Sheet



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### DESCRIPTION

**CarboKlad™ CR33** Chromium Carbide overlay wear plate is manufactured with a special chemistry that produces a very consistent hardness and carbide volume. The unique overlaying process produces a plate with a surface that is harder, tougher, and more wear resistant than plate made by other processes. It is designed for areas with moderate impact and severe abrasion. Easily outwears AR400 by 5 or 6 times and mild steel by a factor of 20. CR33 Overlay Plate is produced with a smooth, low friction polished surface, reducing material hang up and maximizing flow.

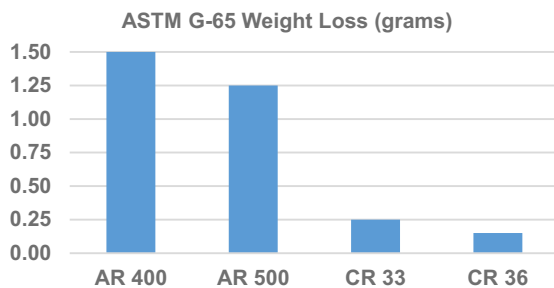
The finished overlay plate can be cut, formed, or rolled. The backing plate can be easily welded together or to any weldable structural material. **CarboKlad CR33** must be cut by a plasma or abrasive water jet.

#### Also available:

**CR36** - complex carbide for more severe abrasive environments and/or temperatures up to 1400°F (750°C).

**CR33WC** - the same high performance Chromium Carbide with Tungsten Carbide for ultimate abrasion resistance.

**CR36WC** - the same high performance complex carbide with Tungsten Carbide for ultimate abrasion resistance.



### MECHANICAL PROPERTIES

Hardness.....58 to 62 Rockwell C  
Service Temperature..1,000°F (538°C)

### USES:

**Mining and Aggregate:** Haulage truck bed liner, shovel bucket liner, dragline bucket liner, wheel excavator liners, chute/hopper liners, screens.

**Cement:** Outlet duct of clinker grinding mill, chute and hopper liners, fan housing liners, feed & discharge piping, transfer points.

**Steel:** Blast furnace liner, fan housing liner, coke vibrating screen plate liner, sinter machine and grizzly bars, receiving hoppers, reclaimer buckets.

**Dredging:** Dredging pipe, dredging pump, suction pipeline, pump discharge.

**Construction:** Paving machine screen and deck plate, dozer blade end bits, shovel bucket liners.

**Recycling:** Shredder wear plate and screens.

**Other:** Conveyor screws, recycling wear parts, snow plow shoes, hammermill side liners.

### WELDING PROCEDURES:

**CarboKlad CR33** is normally supplied with plasma cut edges and can be welded in place to carbon steel or manganese steel structures with wire or electrodes. No preheating is required. It may be necessary to hardface over the weld with Postalloy 2832-SPL wire for added protection. Contact Postle Industries for specific welding product recommendations.

### STANDARD SIZES AND THICKNESS

Standard plate size is 60" x 120". **CarboKlad CR33** can be cut to your specific size and shape. **CarboKlad CR33** is available in single, double, and triple pass applications in special thicknesses or special bases upon request.

Standard Thicknesses	Normal Thickness	Overlay Thickness	Base Plate Thickness
1/8 on 1/8	1/4"	1/8"	1/8"
3/16 on 3/16	3/8"	3/16"	3/16"
1/4 on 1/4	1/2"	1/4"	1/4"
3/8 on 3/8	3/4"	3/8"	3/8"
1/2 on 1/2	1"	1/2"	1/2"

