

# CarboKlad™ CR36

## Data Sheet



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### DESCRIPTION

**CarboKlad™ CR36** Complex Carbide Overlay Plate is specially formulated with additional elements of Molybdenum, Vanadium, and Tungsten for better elevated temperature abrasion resistance than CarboKlad CR33 wear plate. In addition, it contains higher concentrations of small primary carbides dispersed throughout a chromium carbide rich matrix structure for improved abrasion resistance. It is designed for areas with low impact and severe abrasion. Easily outwears AR400 by 10 times and mild steel by a factor of 30. CR36 Overlay Plate is produced with a smooth, low friction polished surface, reducing material hang up and maximizing flow.

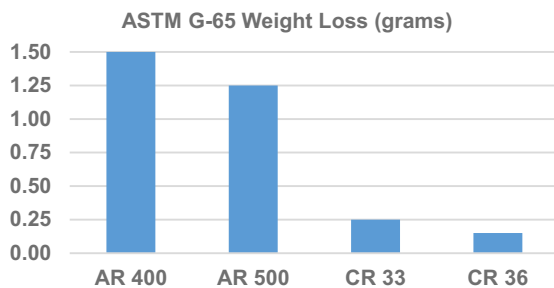
The finished overlay plate can be cut, formed, or rolled. The backing plate can be easily welded together or to any weldable structural material. **CarboKlad CR36** must be cut by a plasma or abrasive water jet.

#### Also available:

**CR33** - Chromium Carbide overlay wear plate for moderate impact and severe abrasion.

**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.....63 to 67 Rockwell C  
 Temperature.....up to 1,400°F (750°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:** Typical applications in the higher temperature range are: Burden areas of blast furnace bells and hoppers, blast furnace charging devices, blast furnace charge deflecting bars, hot sinter screens, hot exhaust fan blades, pelletizing plant equipment, bottom ash screw conveyors.

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

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

**Coal Fired Power Plants:** Coal fired burner nozzle splitter plate.

### WELDING PROCEDURES:

**CarboKlad CR36** 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 2836-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 CR36** can be cut to your specific size and shape.

**CarboKlad CR36** 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"

