

KALMETALL® Hard Overlay Welded Steel

Cost-Effective Protection for Abrasive Applications



KALMETALL® is a combination of a strong steel base and a hard overlay welded chromium carbide protective layer that resists abrasion, impact and high temperatures. The base consists of standard carbon steel or alloy plates designed to suit your specific application. The protective layer is composed of a C-Cr-Fe system with primary chromium carbides and is an integral part of the structure.

- Installs into existing steel structures.
- Design as a cost-effective, low weight, self supporting structure.
- Hard-facing available in a variety of different qualities, thicknesses and dimensions.
- Standard base material is A-36 carbon steel for operating temperatures up to 350° C.
- Standard base thickness is 3/16" or 1/4". Others available.
- Standard hard-faced metal plates range from 48" x 96" to 60" x 120".
- Wide selection of fastening systems.
- Customized components.

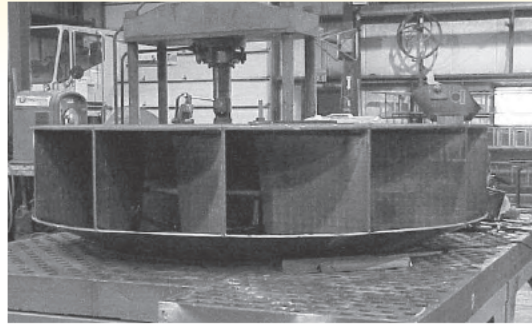
KALMETALL® Hard Overlay Welded Steel

Protect Equipment from Abrasion and Impact with a Variety of Material Options

KALMETALL pre-engineered linings are matched to each application.

Our services include:

- On-site engineering
- Complete steel fabrications
- Variety of attachment methods
- Installation assistance or supervision



KALMETALL Properties				
Base	Thickness		Weight	
	Hardface	US	Metric	
3/16" (4.8 mm)	3/16" (4.8 mm)	14.5 lbs/ft ²	71 kgs/m ²	
1/4" (6.3 mm)	1/4" (6.3 mm)	19.5 lbs/ft ²	95 kgs/m ²	
3/8" (9.5 mm)	1/4" (6.3 mm)	24 lbs/ft ²	114 kgs/m ²	
Standard Plate Sizes	Small	48" x 96"	1219 x 2438 mm	
	Large	60" x 120"	1524 x 3048 mm	
Base Material		ASTM A-36, others available		
Hardness		Rockwell 54-56		
Maximum Service Temperature w/A-36 Base		662°F	350°C	
<small>Technical Data is the result of tests performed on selected samples, and some variations are to be expected. Kalenborn Abresist does not represent, warrant or guarantee the accuracy, completeness or reliability of same. Due to the production process, variations in the product may be expected. These include, but are not limited to dimensional tolerances, surface finish, voids, and porosity. Fractures in the hard overlay are normal and indicate good quality.</small>				

Typical applications:

- Concrete mixer lining
- Bunker lining
- Mill lining
- Chutes
- Dust pipes, ash pipes, etc.
- Separator lining
- Screens
- Fan linings and fan blades
- Cyclone lining

Fastening systems:

- Plug welding
- Rear welding to the basic body
- Rear welding to a nut with internal thread
- Screw-type fastening by stud welding
- Screw-type fastening by counter sunk rings
- Suspended systems



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