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**WEAR-CON 400 WEAR PLATE**

Wear-Con 400 Wear Plate is a premium-grade wear plate. This high brinell, through hardness wear plate provides excellent abrasion resistance as well as impact resistance. Wear-Con 400 can be used as a basic component or as a liner in all types of material handling equipment. Easily weldable with a E7018 rod. Drilling can be done with any high-speed drill. Formability can be done in cold forming conditions. Available in thickness of 3/16" to 4".

**MECHANICAL PROPERTIES (typical)**

Hardness	360-440BHN
Yield Strength	140 ksi
Tensile Strength	180 ksi
Elongation	16%

**CHEMICAL PROPERTIES (typical)**

Element	Percent
C	.14
Mn	1.42
P	.007
S	.003
Si	.45
Mo	.25
Cr	.04
B	.0018

**WELDING PROCEDURES**

Use a low hydrogen rod such as AWS spec. E-70XX, E-100XX, or E110-XX.

**SUGGESTED USES FOR WEAR-CON 400 PLATE**

**CEMENT INDUSTRY**

- Primary Crusher Liners
- Secondary Crusher Liners
- Skirtboard Liners
- Chute & Hopper Liners
- Separator Blades
- Separator Liners
- Clinker Chute Liners
- Dozer Blades
- Haul Truck Bed Liners
- Fan Housing Liners
- Screw Conveyors



**SUGGESTED USES FOR  
WEAR-CON 400 PLATE  
(continued)**

**POWER INDUSTRY**

Skirtboard Liners  
Downcomer Spout Liners  
Pulverizer Housing Liners  
Classifier Vanes  
Pyrite Liners  
Ash Hopper Liners  
Dozer Blades  
Screw Conveyors

**GRAIN INDUSTRY**

Dozer Blades  
Drag Conv. Liners  
Cyclone Liners  
Dryer Plate  
Screen Holders  
Chute Liners  
Hammers  
Screw Conveyors

**SAND & GRAVEL INDUSTRY**

Skirtboard Liners  
Chute Liners  
Haul Truck Bed Liners  
Dozer Blades

**GLASS & FIBERGLASS INDUSTRY**

Cullet Chutes & Hoppers  
Fan Housing Liners  
Fan Blades  
Transitions  
Trim Boards  
Hammers  
Screw Conveyors



**WEAR-CON 500 WEAR PLATE**

Wear-Con 500 Wear Plate is specially designed to reach nominal hardness of 500 BHN. Built in strength and through hardness gives Wear-Con 500 exceptional resistance to both impact and sliding abrasion. Hardness of material increases in the center. Because of the fine grain structure, this is an excellent material to form. Easily weldable with a E7018 rod. Available in thickness of 1/8" to 4".

**MECHANICAL PROPERTIES (typical)**

Hardness	477-555 BHN
Yield Strength	190 ksi
Tensile Strength	250 ksi
Elongation	12%

**CHEMICAL PROPERTIES (typical)**

Element	Percent
C	.28
Mn	.84
P	.025
S	.001
Si	.50
Mo	.25
Cr	.25
B	.0013

**WELDING PROCEDURES**

Use a low hydrogen rod such as AWS spec. E-7018, E-100XX, E110-XX, or E120XX.

**SUGGESTED USES FOR WEAR-CON 500 PLATE**

- CEMENT INDUSTRY**  
 Primary Crusher Liners  
 Secondary Crusher Liners  
 Skirtboard Liners  
 Chute & Hopper Liners  
 Separator Blades  
 Separator Liners  
 Separator Cones  
 Clinker Chute Liners

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**SUGGESTED USES FOR  
WEAR-CON 500 PLATE  
(continued)**

**POWER INDUSTRY**

Dozer Blades  
Haul Truck Bed Liners  
Fan Housing Liners  
Fan Blades  
Ball Mill Liners  
Coal Handling Liners  
Coal Crusher Liners  
Skirtboard Liners  
Downcomer Spout Liners  
Pulverizer Housing Liners  
Classifier Vanes  
Classifier Cones  
Pyrite Liners  
Ash Hopper Liners  
Dozer Blades  
Fan Housing Liners  
Fan Blades

**GRAIN INDUSTRY**

Dozer Blades  
Drag Conv. Liners  
Cyclone Liners  
Dryer Plate  
Screen Holders  
Chute Liners  
Hammers

**SAND & GRAVEL INDUSTRY**

Skirtboard Liners  
Chute Liners  
Haul Truck Bed Liners

**GLASS & FIBERGLASS INDUSTRY**

Cullet Chutes & Hoppers  
Fan Housing Liners  
Fan Blades  
Transitions  
Trim Boards  
Hammers



**WEAR-CON WC600P  
 INDUCTION HARDENED  
 WEAR PIPE**

Wear-Con WC600P provides outstanding wear resistance for pipe-lines used in transporting solids or slurries. WC600P features an inner wall with a hardness of 600 Brinell and outer wall hardness of 250-300 Brinell. WC600P will last 6 to 8 times longer than mild steel pipe in high abrasion/erosion applications. WC600P is easy to install, fabricate or repair in the field. WC600P can also be ultrasonically monitored to allow for well-timed rotations or replacement.

**MECHANICAL  
 PROPERTIES**

ID Hardness	600 Brinell
OD Hardness	250 Brinell
Yield Strength	700 KSI (unhardened state)
Tensile Strength	100 KSI (unhardened state)
Service temp	450° F

**AVAILABLE SIZES**

Nominal Pipe Diameters	2½" - 40"
Wall Thickness	Standard & Extra Heavy
Pipe Lengths	5 to 50 feet

**AVAILABLE FABRICATIONS**

Elbows	Wyes
Tees	Laterals
Bends	Reducers
Spooled to length	Adjustment of flanges, weld rings & couplings

**SUGGESTED INDUSTRY  
 APPLICATIONS**

**CEMENT**

Raw Material Slurry Pipe & Elbows  
 Coal Conduit Pipe and Elbows  
 Clinker Handling Pipe and Elbows  
 Finish Cement Piping and Elbows  
 Waste Fuels Piping and Elbows

**GRAIN**

Raw Grain Pipe and Elbows  
 Cracked Bean Spouts

**SAND & GRAVEL**

Wet Sand Piping and Elbows  
 Finish Sand Piping and Elbows

**GLASS & FIBERGLASS**

Cullet Pipe and Elbows  
 Raw Silica Pipe and Elbows  
 Trim Fan Housing Piping

**POWER PLANT**

Coal Conduit Pipe and Elbows  
 Ash Handling Pipe and Elbows  
 Waste Fuel Piping and Elbows



**WEAR-CON 700 CHROME  
 CARBIDE WEAR PLATE**

Wear-Con 700 Chrome Carbide Wear Plate is a unique chromium carbide overlay on a mild steel base plate. It is designed for areas with severe impact and abrasion. Wear-Con 700 can be formed, rolled and cut to your specific needs.

**MECHANICAL  
 PROPERTIES (typical)**

Hardness 56-62 Rockwell C  
 Max Service Temp 1000° F  
 Overlay can be supplied with single and double pass

**CHEMICAL  
 PROPERTIES (typical)**

Element	Percent
C	5.27
Mn	2.10
P	0.022
S	0.016
Si	0.50
Cr	26.1 - 30.0

**WELDING PROCEDURES**

Wear-Con 700 can be welded with a low hydrogen rod such as AWS spec. 7018 on the base metal. The cover pass at the overlay section should be 60 RC Hardsurface Rod (i.e. Stoodite XHC, McKay Hard Alloy 58, or Rockmount Omega N).

**STANDARD SIZES**

3/8" x 48"x96"	3/8" x 60"x120"
1/2" x 48"x96"	1/2" x 60"x120"
3/4" x 48"x96"	3/4" x 60"x120"
1" x 48"x96"	1" x 60"x120"

Our Wear-Con 700 Chrome Carbide Wear Plate can be supplied with a single pass or double pass application. Wear-Concepts can also service your needs for special size and thickness.

**SUGGESTED USES FOR  
 WEAR-CON 700 CHROME  
 CARBIDE PLATE**

**CEMENT INDUSTRY**  
 Primary Crusher Liners  
 Secondary Crusher Liners  
 Skirtboard Liners  
 Raw Material Chutes & Hoppers  
 Separator Blades  
 Separator Liners  
 (continued next page)



**SUGGESTED USES FOR  
WEAR-CON 700 CHROME  
CARBIDE WEAR PLATE  
(continued)**

Separator Table Liners  
Separator Cones  
Clinker Chute Liners  
Fan Housing Liners  
Fan Blades  
Front End Loader Wear Pads  
Drag Line Bucket Teeth and Wear Pads

**POWER INDUSTRY**

Coal Handling Chute Liners  
Coal Crusher Liners  
Skirtboard Liners  
Exhauster Fan Blades  
Exhauster Spider Wear Pads  
Pulverizer Classifier Cones  
Pyrite Liners  
Ash Hopper Liners  
I.D. Fan Housing Liners  
I.D. Fan Blades

**GRAIN INDUSTRY**

Dozer Wear Pads  
Drag Conv. Liners  
Cyclone Liners  
Dryer Plate  
Prater DF Series Liners  
Champion Series Liners  
Chute Liners

**SAND & GRAVEL INDUSTRY**

Skirtboard Liners  
Chute Liners  
Front End Loader Wear Pads

**GLASS & FIBERGLASS INDUSTRY**

Cullet Chutes & Hoppers  
Fan Housing Liners  
Fan Blades



**WEAR-CON 700 Plus  
 CHROME CARBIDE WEAR  
 PLATE**

Wear-Con 700 *Plus* Chrome Carbide Wear Plate is a unique chromium carbide overlay on a mild steel base plate. It is designed for areas with severe impact and abrasion. Wear-Con 700 *Plus* can be formed, rolled and cut to your specific needs. The 'Plus' denotes the extra chrome carbide content, which results in longer wear.

**MECHANICAL  
 PROPERTIES (typical)**

Hardness 60 - 64 Rockwell C  
 Max Service Temp 1000° F  
 Overlay is applied to the width of the plate

**CHEMICAL  
 PROPERTIES (typical)**

Element	Percent
C	4.0 - 5.0
Mn	0.3%
P	0.02
Si	1.1%
Cr	28%-32%

**WELDING PROCEDURES**

WC 700 *Plus* can be welded with a low hydrogen rod such as AWS spec. 7018 on the base metal. The cover pass at the overlay section should be 60 RC Hardsurface Rod (i.e. Wear-Con VP100).

**STANDARD SIZES**

(Size of plate in metric)	(Approx equiv in standard mea)
6.35mm x 1200mm x 2400mm	1/4" x 48" x 96"
10 mm x 1200mm x 2400mm	3/8" x 48" x 96"
12 mm x 1200mm x 2400mm	1/2" x 48" x 96"
20 mm x 1200mm x 2400mm	3/4" x 48" x 96"
6.35mm x 1500mm x 3000mm	1/4" x 60" x 120"
10 mm x 1500mm x 3000mm	3/8" x 60" x 120"
12 mm x 1500mm x 3000mm	1/2" x 60" x 120"
20 mm x 1500mm x 3000mm	3/4" x 60" x 120"

**SUGGESTED USES FOR  
 WEAR-CON 700 CHROME  
 CARBIDE PLATE**

**CEMENT INDUSTRY**  
 Primary Crusher Liners  
 Secondary Crusher Liners  
 Skirtboard Liners  
 Raw Material Chutes & Hoppers  
 Separator Blades  
 Separator Liners  
 (continued next page)



**SUGGESTED USES FOR  
WEAR-CON 700 *Plus*  
CHROME CARBIDE WEAR  
PLATE (continued)**

Separator Table Liners  
Separator Cones  
Clinker Chute Liners  
Fan Housing Liners  
Fan Blades  
Front End Loader Wear Pads  
Drag Line Bucket Teeth and Wear Pads

**POWER INDUSTRY**

Coal Handling Chute Liners  
Coal Crusher Liners  
Skirtboard Liners  
Exhauster Fan Blades  
Exhauster Spider Wear Pads  
Pulverizer Classifier Cones  
Pyrite Liners  
Ash Hopper Liners  
I.D. Fan Housing Liners  
I.D. Fan Blades

**GRAIN INDUSTRY**

Dozer Wear Pads  
Drag Conv. Liners  
Cyclone Liners  
Dryer Plate  
Prater DF Series Liners  
Champion Series Liners  
Chute Liners

**SAND & GRAVEL INDUSTRY**

Skirtboard Liners  
Chute Liners  
Front End Loader Wear Pads

**GLASS & FIBERGLASS INDUSTRY**

Cullet Chutes & Hoppers  
Fan Housing Liners  
Fan Blades



**WEAR-CON 700 XT  
CHROME CARBIDE WEAR  
PLATE**

Wear-Con 700 XT Chrome Carbide Wear Plate is a complex Chrome Carbide Overlay on a stainless steel base plate. It is designed for areas of severe impact and abrasion, and can also be used where high service temperatures or extreme PH conditions exist. Wear-Con 700 XT can be formed, rolled, and cut to your specific needs.

**MECHANICAL  
PROPERTIES (typical)**

Hardness	56-62 Rockwell C
Max Service Temp	1400° F

**CHEMICAL  
PROPERTIES (typical)**

Element	Percent
C	5.27
Mn	2.10
P	0.022
S	0.016
Si	0.50
Cr	26.1 - 30.0

**WELDING PROCEDURES**

Wear-Con 700 XT can be welded with a 309 or 310 Stainless Steel Rod on the base metal. The cover pass at the overlay section should be 60 RC Hardsurface Rod (i.e. Stoodite XHC, McKay Hard Alloy 58, or Rockmount Omega N).

**STANDARD SIZES**

3/8" x 60"x120"  
1/2" x 60"x120"  
3/4" x 60"x120"  
1" x 60"x120"

Our Wear-Con 700 XT Chrome Carbide Wear Plate can be supplied with a single pass or double pass application. Wear-Concepts can also service your needs for special size and thickness.

**SUGGESTED USES FOR  
WEAR-CON 700 CHROME  
CARBIDE PLATE**

**CEMENT INDUSTRY**  
Primary Crusher Liners  
Secondary Crusher Liners  
Skirtboard Liners  
Raw Material Chutes & Hoppers  
Separator Blades



**WEAR-CON 750 CHROME ALLOY PINS**

Wear-Con 750 Chrome Alloy Pins are a Air Hardened Style Overlay which will work harden to a 65 RC. They are designed to withstand the most severe wear in metal to metal applications, and will typically outlast OEM and manganese pins used in dragline shovel bucket applications. They are also rebuildable, which can provide a significant cost savings over time.

**MECHANICAL PROPERTIES (typical)**

Hardness	52-58 Rockwell C (will work harden to 60-65 RC)
Tensile Strength	160,000 PSI
Yield Strength	130-135,000 PSI
Max Service Temp	900° F

**CHEMICAL PROPERTIES (typical)**

Element	Percent
C	0.20
Mn	1.20
P	0.015
S	0.010
Si	0.40
Ni	4.0
CH	26.0
Mo	0.50

**STANDARD SIZES**

2 1/2" dia Minimum  
 9" dia Maximum  
 Up to 64" Length  
 Typical Tolerance +-0.010

**SUGGESTED USES FOR WEAR-CON 750 CHROME ALLOY PINS**

**CEMENT INDUSTRY**

Primary Crusher Hammer Shafts and Pins  
 Secondary Crusher Hammer Shafts & Pins  
 Screw Conveyor Coupler Shafts  
 Dragline Bucket Pins  
 Clam Shells Bucket Pins  
 Clinker Cooler Wheels  
 Sheave Pins

**MINING INDUSTRY**

Drag Line Bucket Pins  
 Clam Shell Bucket Pins  
 Crusher Shafts and Pins  
 Back Hoe Pins  
 Sheave Pins

**POWER INDUSTRY**

Coal Crusher Shafts and Pns  
 Screw Conveyor Stub Shafts  
 Screw Conveyor Coupler Shafts  
 Sheave Pins



**WEAR-CON WC700P  
 CHROME CARBIDE  
 WEAR PIPE**

Wear-Con WC700P provides excellent resistance to severe abrasion, erosion and impact. WC700P will last up to 10 times longer than mild steel pipe and is easy to install, offers lower life cycle costs and can be custom fabricated to aid pipe design or replacement.

**MECHANICAL  
 PROPERTIES**

Hardness	Single Pass	52-56 HRc
	Double Pass	58-62 HRc
Service Temperature		1100° F

**AVAILABLE SIZES**

Nominal Pipe Diameters	Straights	8" - 40"
	Bends	8" - 30"
Pass Thickness	3/16" - 1/4"	
Pipe Lengths	to 50 feet	

**AVAILABLE  
 FABRICATIONS**

Spooled to length  
 Bends  
 Tees  
 Wyes  
 Laterals  
 Attachment of flanges, weld rings & couplings

**SUGGESTED  
 APPLICATIONS**

<b><u>CEMENT</u></b>	Raw Material Slurry Pipe & Elbows	<b><u>GRAIN</u></b>	Raw Grain Pipe and Elbows
	Coal Conduit Pipe and Elbows		Cracked Bean Spouts
	Clinker Handling Pipe and Elbows	<b><u>SAND &amp; GRAVEL</u></b>	Wet Sand Piping and Elbows
	Finish Cement Piping and Elbows		Finish Sand Piping and Elbows
	Waste Fuels Piping and Elbows		
<b><u>GLASS &amp; FIBERGLASS</u></b>	Cullet Pipe and Elbows	<b><u>POWER PLANT</u></b>	Coal Conduit Pipe and Elbows
	Raw Silica Pipe and Elbows		Ash Handling Pipe and Elbows
	Trim Fan Housing Piping		Waste Fuel Piping and Elbows



**WEAR-CON WC700P Plus  
 CHROME CARBIDE  
 WEAR PIPE**

Wear-Con WC700P *Plus* provides excellent resistance to severe abrasion, erosion and impact. WC700P *Plus* will last up to 12 times longer than mild steel pipe and is easy to install, offers lower life cycle costs and can be custom fabricated to aid pipe design or replacement. The 'Plus' denotes the extra chrome carbide content, which results in longer wear.

**MECHANICAL  
 PROPERTIES**

Hardness 60-64 HRc  
 Service Temperature 1000° F

**AVAILABLE SIZES**

Nominal Pipe *Inside Diameters* 6", 8", 10", 12"  
 14" and 16" (are measured *OD*)  
 Pipe Lengths up to 118"  
 Wall Thickness 3/8" (10mm) for all, except 6" pipe  
 is 5/16" (8mm) wall thickness

**AVAILABLE  
 FABRICATIONS**

Spoiled to length  
 Bends  
 Tees  
 Wyes  
 Laterals  
 Attachment of flanges, weld rings & couplings

**SUGGESTED  
 APPLICATIONS**

<p><b><u>CEMENT</u></b>          Raw Material Slurry Pipe &amp; Elbows          Coal Conduit Pipe and Elbows          Clinker Handling Pipe and Elbows          Finish Cement Piping and Elbows          Waste Fuels Piping and Elbows</p> <p><b><u>GLASS &amp; FIBERGLASS</u></b>          Cullet Pipe and Elbows          Raw Silica Pipe and Elbows          Trim Fan Housing Piping</p>	<p><b><u>GRAIN</u></b>          Raw Grain Pipe and Elbows          Cracked Bean Spouts</p> <p><b><u>SAND &amp; GRAVEL</u></b>          Wet Sand Piping and Elbows          Finish Sand Piping and Elbows</p> <p><b><u>POWER PLANT</u></b>          Coal Conduit Pipe and Elbows          Ash Handling Pipe and Elbows          Waste Fuel Piping and Elbows</p>
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**WEAR-CON SHC800 SOLID HIGH-CHROME WEAR PANELS**

Wear-Con's SHC800 Solid High-Chrome Wear Panels are cast from High Chrome white iron with a hardness of 55-58 HRC. These wear panels are unsurpassed in abrasion resistance and are easily installed. The chromium carbides provide maximum abrasion resistance along with the ability to withstand higher temperatures. Wear-Con's SHC800 Wear Panels will out last alloy plate and will perform to abrasion standards similar to ceramics.

**BENEFITS**

Superior abrasion resistance  
 Withstands temperatures of 900° F  
 Installs easily  
 Corrosion and erosion resistant  
 Cost beneficial wear-life

**APPLICATIONS**

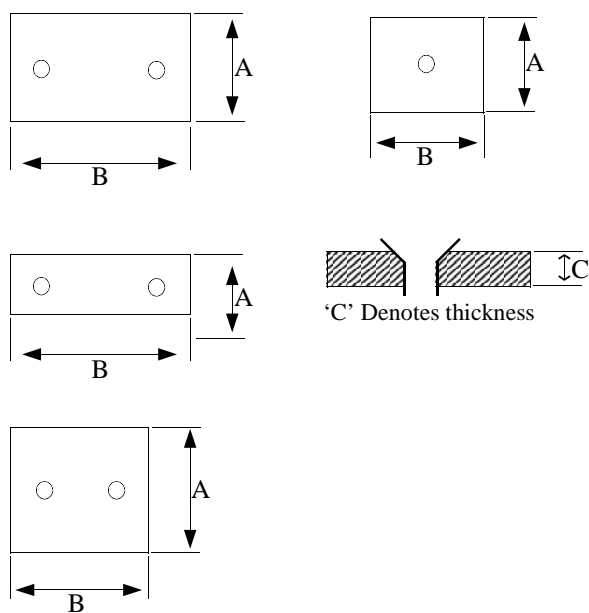
Mixer Tanks	Rail Cars
Chutes and Transitions	Mixer Liners
Classifiers	Pug Mills
Conveyor Casings	Scrap Bins
Dust Collectors	Skip Cars
Cyclone Separators	Fan Casings
Feeders	Wear Panels

**INSTALLATION**

The most common method of installation is by bolting. Each panel has counter-sunk holes to facilitate usage of plow bolts or the panels could be plug-welded with 309/310 Stainless.

**AVAILABLE SIZES**

See chart below



**Nominal Dimensions**

Part#	Dimensions	Part#	Dimensions
5053-1-1 . . . . .	A = 12" B = 18" C = 1/2"	5053-1-2 . . . . .	A = 12" B = 18" C = 3/4"
5053-2-1 . . . . .	A = 6" B = 18" C = 1/2"	5053-2-2 . . . . .	A = 6" B = 18" C = 3/4"
5053-3-1 . . . . .	A = 12" B = 12" C = 1/2"	5053-3-2 . . . . .	A = 12" B = 12" C = 3/4"
5053-4-1 . . . . .	A = 6" B = 6" C = 1/2"	5053-4-2 . . . . .	A = 6" B = 6" C = 3/4"



**WEAR-CON 900 TUNGSTEN CARBIDE**

Wear-Con 900 Tungsten Carbide Wear Plate is a unique tungsten carbide overlay on a mild steel base plate. It is designed for areas with severe impact and abrasion. Wear-Con 900 can be formed, rolled and cut to your specific needs.

**MECHANICAL PROPERTIES (typical)**

Hardness	73-75 Rockwell C
Max Service Temp	1000 Deg (F)
	Overlay can be supplied with single and double pass

**CHEMICAL PROPERTIES (typical)**

Element	Percent
C	5.27
Mn	2.10
P	0.022
S	0.016
Si	0.50
Cr	26.1-30.0
W	35.0

**WELDING PROCEDURES**

Wear-Con 900 can be welded with a low hydrogen rod such as AWS spec 7018 on the base metal. The cover pass at the overlay section should be 60 RC Hard surface Rod (I.e. Stoodite XHC, McKay Hard Alloy 58, or Rock-mount Omega N).

**STANDARD SIZES**

- 3/8" x 42 1/2" x 92 1/2"
- 1/2" x 42 1/2" x 92 1/2"
- 3/4" x 42 1/2" x 92 1/2"
- 1" x 42 1/2" x 92 1/2"

Our Wear-Con 900 Tungsten Carbide Wear Plate can be supplied with a single pass or double pass application. Wear-Concepts can also service your needs for special size and thickness.

**SUGGESTED USES FOR WC900 TUNGSTEN CARBIDE**

- CEMENT INDUSTRY**  
 Primary Crusher Liners  
 Secondary Crusher Liners  
 Skirtboard Liners  
 Raw Material Chutes and Hoppers  
 Separator Blades  
 (continued on next page)



**SUGGESTED USES FOR  
WEAR-CON 900 TUNGSTEN  
CARBIDE WEAR PLATE  
(continued)**

Separator Liners  
Separator Table Liners  
Separator Cones  
Clinker Chute Liners  
Fan Housing Liners  
Fan Blades  
Front End Loader Wear Pads  
Drag Line Bucket Teeth and Wear Pads

**POWER INDUSTRY**

Coal Handling Chute Liners  
Coal Crusher Liners  
Skirtboard Liners  
Exhauster Fan Blades  
Exhauster Spider Wear Pads  
Pulverizer Classifier Cones  
Pyrite Liners  
Ash Hopper Liners  
I.D. Fan Housing Liners  
I.D. Fan Blades

**GRAIN INDUSTRY**

Dozer Wear Pads  
Drag Conv. Liners  
Cyclone Liners  
Dryer Plate  
Prater DF Series Liners  
Champion Series Liners  
Chute Liners

**SAND & GRAVEL INDUSTRY**

Skirtboard Liners  
Chute Liners  
Front End Loader Wear Pads

**GLASS & FIBERGLASS INDUSTRY**

Cullet Chutes & Hoppers  
Fan Housing Liners  
Fan Blades



**WEAR-CON WC910  
TUNGSTEN CARBIDE**

WC910 Tungsten Carbide tiles provide a more economical way of extending the life of parts and castings as compared to manufacturing them completely out of Tungsten Carbide. WC910 is applied by induction brazing with strict quality control, insuring permanent placement of the Tungsten Carbide and consistency in every application. WC910 Tungsten Carbide can provide up to 50 times the life of mild steel. Special carbide grades can be applied where higher impact, sliding, or corrosion resistance is required.

**MECHANICAL  
PROPERTIES (typical)**

Hardness	Impact Grade - 68 RC Non-Impact Grade - 93 RA
Tensile Strength	Same as base metal to which applied
Shear Strength	20,000 PSI Min 50,000 PSI Max
Max Service Temp	800 Deg (F)

**STANDARD SIZES**

Thickness: 1/16", 1/8", 3/16"  
Length/Width: 1/4", 3/8", 1/2", 3/4", 1", 1 1/2"

**SUGGESTED USES FOR  
WC910 TUNGSTEN  
CARBIDE**

**CEMENT INDUSTRY**  
Coal Mill Exhauster Blades  
Coal Mill Whizzer Blades  
Coal Mill Exhauster Bullnose  
Classifier Vanes  
Bolt Protectors  
Angle Deflectors  
Vane Deflectors  
Modular Panel Liners  
Transition Chutes  
Waste System Cutter Blades



**WEAR-CON AR PLATE**

Wear-Con AR Plate is a high abrasion resistant carbon wear plate. It has a 235-250 brinell hardness which provides wear protection in many applications with relatively low cost. Wear-Con AR Plate will outlast hot rolled carbon steel by a wide margin. Wear-Con AR Plate can easily be drilled, machined, punched, and welded. Moderate amounts of forming are also applicable. Available in thickness of 3/16" to 1".

**MECHANICAL PROPERTIES (typical)**

Hardness	235-250
Yield Strength	70,000 PSI
Tensile Strength	110,000 PSI

**CHEMICAL PROPERTIES (typical)**

Element	Percent
C	.35
Mn	1.20
Mo	---
Cr	---
B	---

**WELDING PROCEDURES**

Use a low hydrogen rod such as AWS spec. E-70XX, E-80XX, E90XX, E-100XX, E-110XX, and E120XX.

**SUGGESTED USES FOR WEAR-CON AR PLATE**

**CEMENT INDUSTRY**

Chute Hopper Liners  
 Separator Liner & Parts  
 Fan Blades  
 Screw Conveyor

**SAND & GRAVEL INDUSTRY**

Skirtboard Liners  
 Chute Liners  
 Screw Conveyors

**POWER INDUSTRY**

Coal Handling Chute Liners  
 Skirtboard Liners  
 Classifier Vanes  
 Dampers  
 Fan Blades  
 Screw Conveyors

**GRAIN INDUSTRY**

Drag Conveyor Liners  
 Drag Conveyor Paddles  
 Dryer Paddles  
 Screen Holders  
 Chute Liners  
 Hammers

**GLASS & FIBERGLASS INDUSTRY**

Fan Blades  
 Transistions  
 Trim Boards  
 Hammers  
 Screw Conveyors