

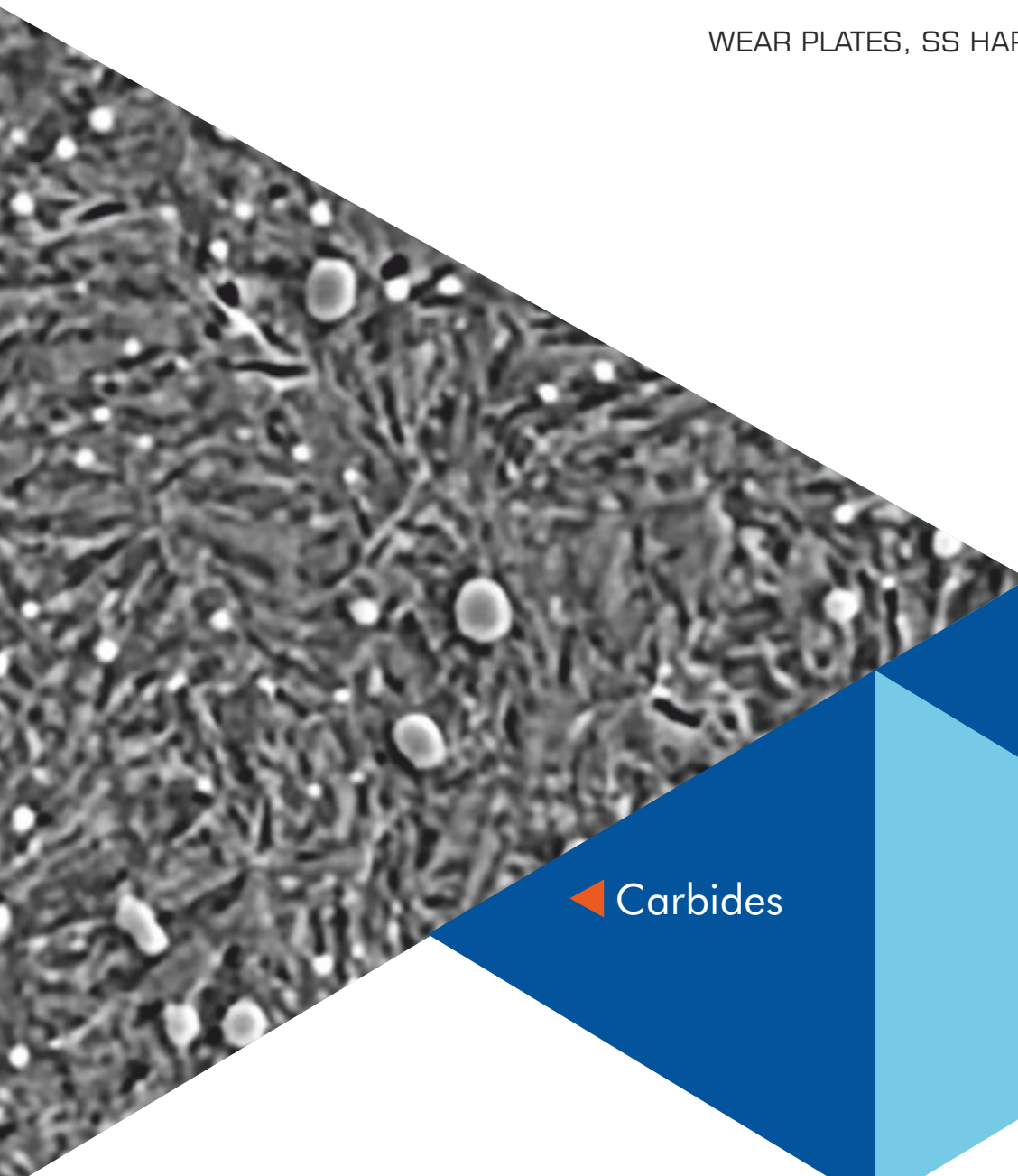
# WearPac

*"Protected tools gives best finished product"*



Wearpac

WEAR PLATES, SS HARD FACED LINERS & TILES



◀ Carbides

Fusion Powder  
Welding Process

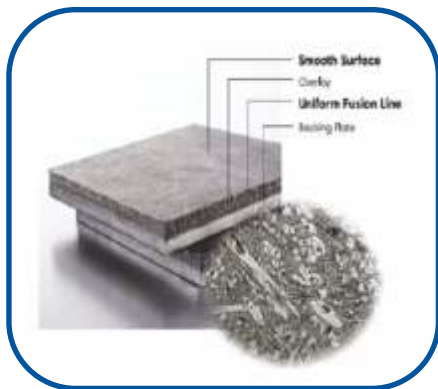


Wear & tear resistant **WEARPLATES** or **Steel liners** are used in many applications where friction between two parts or materials creates degradation. **WEARPLATES** is commonly a type of abrasion / Impact & Corrosion resistant steel plate hard faced by high hardness minerals & coating (by uniform weld bead (build- up) by special solid wire welding technique) that is considered extremely durable, especially under harsh conditions.

Sections of hardened steel plates of various thicknesses (as desired) which are welded (or bolted) in areas of severe wear, such as the insides of feeders, crushers, transfer chutes, or any other area where mined material passes, creating abrasion & corrosion depending upon type of material & medium passes, and threatens wearing of these areas.

Segment majorly needs these products for various applications are

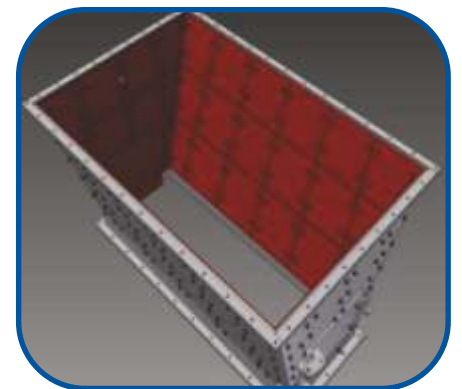
- CEMENT
- MINING
- STEEL
- POWER PLANTS
- CHEMICAL PLANTS
- FERTILIZERS UNITS.



**WEAR PLATE STRUCTURE**



**MINING**



**HOPPERS**



**HEAVY ENGINEERING & POWER**



**STEEL INDUSTRY**



**MINING & CEMENT**



**BASIC  
FEATURES  
OF POWDER  
FUSION  
WELDING  
PROCESS**

1. Minimum dilution with base metal.
2. Minimum penetration with base metal from 0.5 mm to 1 mm
3. Uniform distribution of carbides throughout the thickness, of deposit from fusion line to the top surface.
4. Uniform hardness throughout the thickness
5. Selection of different alloys to suit different industrial Applications
6. Uniform thickness of weld deposit throughout the surface area.

**WEAR PLATE GRADES**

GRADE	ALLOY BASE	HARDNESS	WORKING TEMP.
WP - ECO	C, Mn, Cr, Si	50-55 Rc	Up to 100
WP - STD	C, Mn, Cr, Si	55-60 Rc	Up to 100
WP - 001	C, Mn, Cr, Si	58-62 Rc	Up to 300
WP - 005	C, Mn, Mo, Si, Cr, B	58-62 Rc	Up to 350
WP - 010	C, Mn, Mo, Si, Cr, B	58-62 Rc	Up to 400
WP - 014	C, Mn, Mo, Si, Cr, B, Nb	58-62 Rc	Up to 450
WP - 019	C, Mn, Mo, Si, Cr, B	60-65 Rc	Up to 650
WP - 023	C, Mn, Mo, Si, Cr, B, Nb, W, V	60-65 Rc	Up to 650

**MICRO  
STRUCTURE  
OF  
WEAR  
PLATES**

WP - ECO	Chromium carbides in dendritic matrix
WP - STD	Inter dendritic chromium in an austenitic matrix
WP - 001	chromium carbides in austenitic matrix
WP - 005	Primary chromium carbides in austenitic matrix
WP - 010	Eutectic chromium carbides in austenitic matrix
WP - 014	Complex Chromium carbides in austenitic matrix
WP - 019	Complex carbides in baride
WP - 023	Austenitic matrix with complex carbides of different types of chromium rich hexagonal primary carbides, M7C3 eutectic carbides and nodular niobium carbies

**STANDARD PLATE SIZES**

1250 x 2500 mm.  
1500 x 3150 mm

**DEPOSIT SIZE**

1150 x 2400 mm.  
1400 x 3000 mm.

**Deposit Thickness**

3 mm | 4 mm | 5 mm | 6 mm | 7 mm | 8 mm

**Base Plate Thickness**

5 mm | 6 mm | 5 mm | 8 mm | 10 mmm & So on

**STANDARD  
PLATE  
SIZES**

## CEMENT MANUFACTURING

Screw Feeders and Troughs  
Pipe work Reducers and Elbows  
Cyclones  
Fan Casings, Liners & Blades  
MS Liners  
Chute and Hopper Liners  
Clinker Cooler pan Liners  
Detector Plates  
Truck Bed Liners  
Dozer Blade Liners  
Earth Moving Bucket Liners

## COAL PREPARATION

Transfer Chutes  
Loading & Unloading Chutes  
Bin Liners i.e. Surge, Hopper,  
Reject MI Skirt Liners  
Delactor Liners  
Flop Gate Liners  
Washer Pipework  
Plough Blades Reclaimer Liners  
Spools  
Crusher Liners  
Train Loading & Unloading  
Chute Liner  
Vibratory Feeder Liners  
Screen plates  
Spiral Chutes Reducers and Bends

## ORE PROCESSING

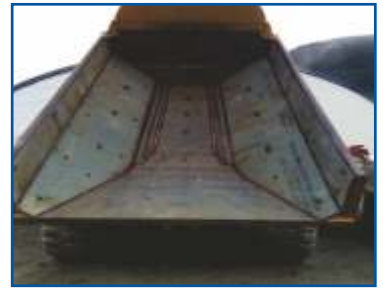
Transfer Chutes  
Skirt Liners  
Deflector Liners  
Vibratory Feeder Liners  
Train Loading & Unloading Chute Liners  
Flop Gate Liners  
Plough Blades  
Crusher Liners  
Washer Pipework, Spools, Reducers & Bends  
Screen Plates

## STEEL PLANTS

Chutes  
Screens  
Bunkers  
Blast Furnace Bells  
De-brushing Pipeline  
Throat Armour Plates  
Distribution Chutes  
Pipelines  
Funnels

## THERMAL POWER PLANTS

I.D.Fan  
P.A.Fan  
Coal MI Wear Plates (Detection)  
Coal Feeders  
Scrapper Blades  
Ceal MI Cones  
Coal MI Bends  
Coal MI Rings



## Customers Served :



# WearPac

"Protected tools gives best finished product"

for more details

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