



Hard facing Wear Pipe

MODERATE ABRASION RESISTANT WEAR PIPE

Hard facing pipe is an advanced wear-resistant solution with chromium carbide overlay (CCO) welded to carbon steel base. Engineered for severe abrasion, erosion, and impact in mining, cement, power, and industrial slurry lines.

Metallurgical bonding ensures durability; available in round/square pipes, elbows, and transitions. Custom fabrication with no MOQ.



Advantages

Superior Wear Protection for Demanding Applications

Hard facing pipes with chromium carbide overlay deliver unmatched durability in abrasive environments—extending service life, reducing downtime, and lowering total operating costs.



Extreme Abrasion Resistance

Engineered with 50-65% chromium carbides, our hardfacing plates achieve 58-65 HRC surface hardness – delivering 8-15X longer lifespan than AR400 steel in high-wear zones like raw mill feed chutes and slag conveyors.



Impact-Resistant Toughness

A ductile low-carbon steel backing (Q235/Q345) absorbs heavy impact shock, while the metallurgically bonded overlay prevents cracking – proven in mining crusher liners and shovel buckets subjected to 12-ton rock impacts.



Custom Thickness & Geometry

Available in 4+4mm to 30+20mm configurations with waterjet-cut bolt holes, radii, and contours – eliminating post-weld machining and reducing installation time by 70% for complex equipment like cyclone separators.



Cost-Per-Ton Dominance

Reduce total operating costs by 40-60% versus replaceable liners: our hardfacing plates slash downtime for change-outs and eliminate consumable welding rods in high-abrasion zones like coal pulverizer cones.



Main data

Manufacturing Techniques

Hard facing via open-arc or submerged-arc welding, cladding, and overlaying.

Hardness of Hard Facing Metal:

HRC55 above



Chemical Components

Hard Facing Metal Slice (Wt%)

C	Si	Mn	Cr	Mo	Nb	Zr
2.5-5.0	0.5-2.5	0.5-2.2	15.0-25.0	+	+	≤2.0

Wear - resistant Layer of Surfacing Weldments (Wt%)

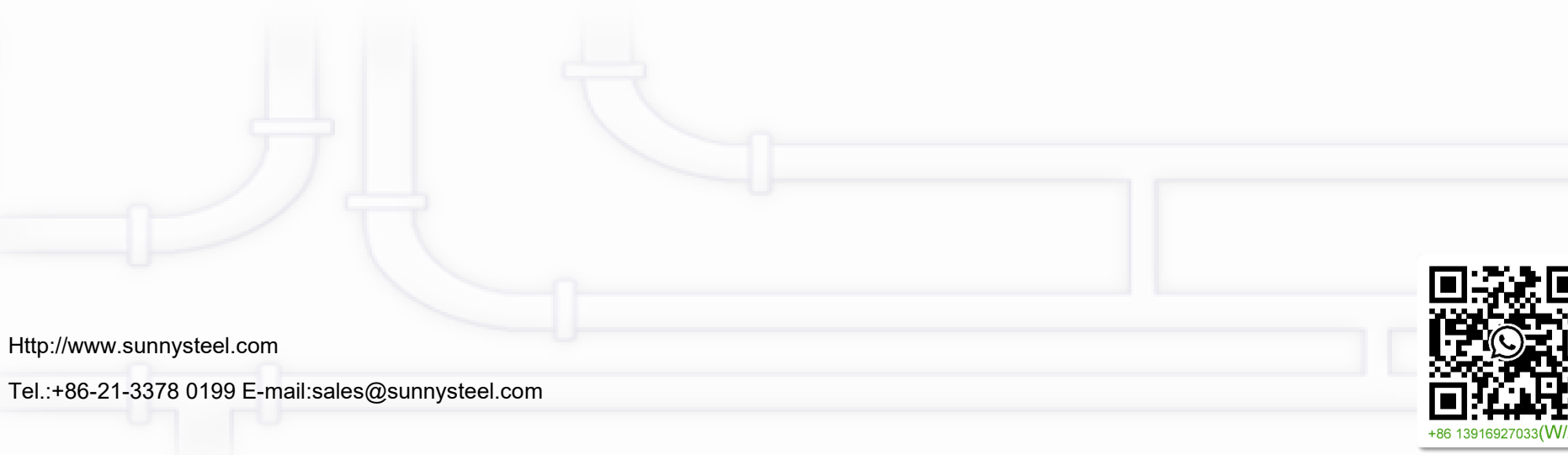
C	Si	Mn	Cr	Mo	Nb	Zr
> 2.0		> 0.3	> 7	+	+	< 2.0

Remarks: The chemical compositions listed in this table are Typical Ranges. The specific compositions will be fine - tuned according to the hardness required by the customer and the usage environment.



Processing Services

Cutting, bending, punching, welding, and custom fabrication.



Chromium Carbide Overlay Wear Pipe

Strengthen your boiler infrastructure with CCO wear tube corrosion protection, featuring hrc60 hardness and up to 800°C thermal stability to combat erosion and chemical degradation.





Get in Touch

We would absolutely love to hear from you if you are interested in our products or would like to work with us. Even if you just have a comment or suggestion, we would be delighted to hear from you.

Please get in touch for more detailed information.

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