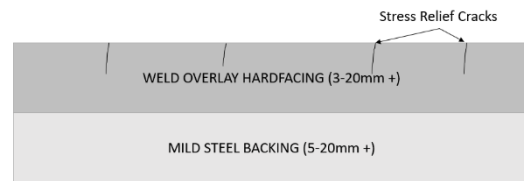


AP-3000 AbrasaPlate

Description

AP-3000 AbrasaPlate is a high quality compound weld-overlay hardfaced plate. The chrome carbide overlay provides high hardness and abrasion resistance. AP-3000 is used for general applications with high abrasion and moderate impact.



AbrasaPlate cross-section

Applications

Ash Lines	Elbows	Buckets	Chutes & Ducts
Hoppers	Classifiers	Vibrator Pan Feeders	Sinter Breaker Bars
Crusher liners	Blast furnace	Sinter Plants	Drag Lines
Grizzly Bars	Fan Blades	Cyclones	Cement Kilns

Typical Weldmetal Analysis

C	Cr	Mn	Si	Fe
3.5↑	20↑	※	※	Base

*Actual composition varies depending on the overlay thickness

Mechanical Properties

Hardness	HRC 58-62
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Microstructure

Mixture of high volume hexagonal shaped chromium carbide in tough austenitic and martensitic matrix. Volume Fraction Primary Carbides: 30%. Relief cracks are normal in the hardfacing.

Processing

- AbrasaPlate can be welded on the mild steel using standard low hydrogen consumables. For welding the hardfacing side to structural steels we recommend using **AI-1707** stainless wire, or **AI-0207** electrodes.
- AbrasaPlate can be rolled or pressed. Diameters depend on thickness of plate.
- AbrasaPlate can be cut using plasma (from the back side), water jet or laser.



Available Forms

Thickness	Sheet Sizes
3 on 3	1.5x3.0
4 on 4	1.5x3.0
4 on 6	1.5x3.0, 2.2x3.0
6 on 6	1.5x3.0, 2.2x3.0
5 on 8	2.2x3.0
6 on 6	1.5x3.0, 2.2x3.0
6 on 8	1.5x3.0, 2.2x3.0
8 on 8	1.5x3.0, 2.2x3.0
9 on 10	1.5x3.0, 2.2x3.0
9 on 16	2.1x3.0
12 on 12	1.5x3.0
17 on 12	1.5x3.0, 2.2x3.0

Thickness	Sheet Sizes
4 on 4-X	1.5x3.0
4 on 6-X	1.5x3.0
6 on 8-X	1.5x3.0
9 on 10-X	1.5x3.0
12 on 12-X	1.5x3.0

- The -X Cross Hatch AbrasaPlate has an additional 2-3mm height of cross hatch hardfacing weld on top of the standard hardfacing thickness.
- Backing Plate: Standard SS400 mild steel, others available on request.
- Custom thickness and sizes are available to request
- Also available as internally or externally hardfaced pipe: AbrasaPipe

Disclaimer

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