

ABRACLAD 60

WEAR RESISTANT CHROMIUM CARBIDE OVERLAY PLATE

ABRACLAD 60 is a versatile wear-resistant plate, which consists of a base plate of construction steel S235JR according to EN 10025-2 with a weld-on overlay containing very hard, wear-resistant chrome carbides.

The main alloying elements in the chemical composition of the overlay are carbon (C) and chromium (Cr). The connection between these two elements is created during the cooling of the weld pool and produces chromium carbides. Other elements in the weld-on layer besides iron (Fe) include silicon (Si), manganese (Mn) and niobium (Nb), which form a tough matrix for the chromium carbides.

The ABRACLAD chrome carbide overlay plate series starts with ABRACLAD 60, with a hardness of at least 60 HRC (Rockwell C) and continues up to ABRACLAD 65, with at least 65 HRC.

ABRACLAD	60	62	63	64	65
C	4,5	5,4	4,5	5,2	4,5
Cr	32,0	30,0	23,0	23,0	23,0
Si	-	1,0	0,8	0,7	0,9
Mn	2,0	0,6	0,7	0,7	1,0
B	-	0,4	0,4	0,6	-
Mo	-	-	-	-	5,0
Nb	-	3,0	5,5	6,0	6,6
V	-	-	-	-	1,0
W	-	-	-	-	2,0
HRC	≥60	≥62	≥63	≥64	≥65



ABRACLAD 60 SB is a plate with a stringer bead weld-on overlay. Due to the relatively thin welding layer and a well-oriented structure, these plates are extremely suitable for cold forming into tubes, cones, paddles and other workpieces with a critical or complex shape.

ABRACLAD 60 SB is available in thicknesses 5.0 mm (3.0 + 2.0), 6.0 mm (3.0 + 3.0) and 8.0 mm (5.0 + 3.0).

For other types of wear, whether or not in combination with erosion, corrosion or high temperatures, the application of ABRACLAD 62-65 can be the optimal wear-limiting solution. Feel free to submit your situation to us, so that we can give you appropriate advice and make a proposal.



ABRACLAD 60

APPLICATION EXAMPLES

ABRACLAD 60 has many application possibilities. Especially in processes where great forces occur.

- + Cyclones
- + Pipelines
- + Pumps
- + Sliding and vibrating chutes
- + Conveyor screws
- + Crushers
- + Mixers
- + Sieves and screens



In mining, quarrying and earthmoving, the use of highly wear-resistant cladded plates is a known way of substantially retarding wear. Chromium carbide overlay plates are also frequently used in various industries as a wear-limiting solution.

- + Dredging wheels
- + Buckets
- + Fans and fan housings
- + Liner kits for tippers and dump trucks
- + Skid plates
- + Conveyor installations
- + Transfer chutes
- + Mixing and drying machines

AVAILABLE DIMENSIONS FROM STOCK

Thickness	6	8	10	15	15	20
Base plate thickness	3	5	6	8	10	10
Overlay thickness	3	3	4	7	5	10
Base plate width	1500	1500	1500	1500	1500	1500
Overlay width	1400	1400	1400	1400	1400	1400
Base plate length	3000	3000	3000	3000	3000	3000
Overlay length	2950	2950	2950	2950	2950	2950
Kg/piece	198	264	330	496	496	661

ABRACLAD 60 can be cut with plasma or waterjet. Laser cutting is not possible. Feel free to inquire about our options, such as cutting to size or shape, holes, countersink holes, threaded holes, welded studs, etc.