

DATA SHEET **SUPERPOWER®** CHROME PLUS



General characteristics:

Hardfacing plates and tubes SuperPower® Chrome Plus is a very high abrasion resistance steel. It's a Steel base plate type S-235, S-355, 13CrMo4.5, S-690 or others depending the conditions of work. Coated with welding with a high content of 32% Chromium carbides, which gives it a much higher resistance compared to conventional laminated wear resistant steels Q&T. Its high tenacity gives it a wide spectrum of applications, for the mining industry, both in extraction, transport and processing, with very profitable life time.

Applications:

It is resistant to abrasion with moderate impact, heat, corrosion and chemical attack, making it ideal for applications in a variety of industries, including concrete, mining, sand production, power plants and other industries submitted to the treatment of abrasive solids.

Properties of the finished steel:

HARDNESS	Base Plate	TEMPERATURE	INDUSTRY USE
60-62 HRC	S-235	450 °C	Medium impact and abrasion

Chemical Analysis:

C	Cr	Mn	Si	B	Others	Fe
4,8%	32%	1,5%	0,80%	0,30%	1%	Rest

Base Steel S-235 // S-355 – DIN 17100 // EN 10025 // EN 100029
The hardness is indicative, depending on the recharged thickness
Consult the application in each case, for better advice.

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Standard supply:

- 2.900 x 1.900 mm recharged area (base plate 3.000 x 2.000 mm)
- 2.900 x 1.400 mm recharged area (base plate 3.000 x 1.500 mm)
- 2.450 x 1.150 mm recharged area (base plate 2.500 x 1.250 mm)
- 1.950 x 900 mm recharged area (base plate 2.000 x 1.000 mm)

Milimetres	3	4	5	6	8	10	12	15	20	25	30	35
Base 3												
Base 5												
Base 6												
Base 8												
Base 10												
Base 12												
Base 15												
Base 20												

Base plate tolerance according to DIN 17100 - EN 10029 / EN 10025 (S-235-JR)

Overlay Tolerances -0 +1 mm.

Flatness tolerances in finished plate: +/- 10 mm. on 3000 mm.

Special supply:

We can make special plate formats, in length, width and thickness, both in base plate and hardfacing, to achieve the best performance of your factory and machine.

Manipulation:

Cut - by plasma, keeping its properties to wear.

Welding – It is possible to make joint welding by the base of S-235 type AWS-7018 and by the side of hardfacing to make manual supply of SuperPower® reload in wire or electrode.

Bent – It is easily done, provided that the radius of curvature is not 15 times higher than the total thickness.

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Technical advice:

For any questions about applications or manipulations, do not doubt to consult our technical department for advice.



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