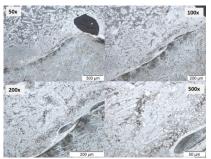


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HARDFACED WEAR RESISTANT PLATE - VORAX VRX 550

Applications	Hardfaced plate available includes chromium carbide grades with outstanding resistance to abrasion, erosion and low impact resistance at both ambient and elevated temperatures. Typical applications include: Dredge Pump parts, Hoppers, Crusher Rolls, Sinter plant, Screw Conveyers, Blast furnace, Mixing tools, Exhaust fan blades, Shovel bucket teeth, etc.
BASE PLATE SPECIF	ICATIONS
Types of Base Metal	S235JR. Others on Request
Dimensions of Base Plate	1500 x 3000mm, 1250 x 2500mm, 1000 x 2000mm
Thickness of Base Plate	3, 4, 5, 6, 8, 10, 12, 15, 20mm and others on request
CLADDING SPECIFIC	ATIONS
Main Dimensions	1400 x 2900mm, 1150 x 2400mm, 900 x 1950mm, others dimensions on request
	C Cr Mn P S Ni B Nb Fe
Chemical Composition (Spectrum Analyser)%	min 4,1 29,0 2,0 0,55 0,015 0,015 0,5 0,0 bal.
(Spectium Analysei)//	max 5,1 35,0 3,0 1,10 0,035 0,035 1,5 2,0 bal.
Deposit Thickness	3, 4, 5, 6, 8, 10 and any thickness until max plates thickness of 35mm
Wear Resistant	Abrasion, Erosion
Hardness (EN 6508-1)	60 - 64 HRc
Tensile Strength	>2150 MPa
Bending	Yes. Bend carefully in little steps with low pressure
Cutting	Yes. Plasma, water jet and laser
Working Temperature (°C)) 350-450
Testing	Rockwell Hardness Testing and Chemical Composition in every Batch.
TOLERANCES	
Thickness (mm)	-0+1mm
Flatness (mm)	± 10 mm on 3000mm
Surface Conditions	The appearance of an overlaid plate does not reflect its resistance to wear and it is often the less cosmetically attractive materials which have the better mechanical properties. It may even contain some small cracks that extend down to the base plate.
Cracks	Another characteristic of good quality plate is the presence of stress relief cracks which, contrary to first impressions, are actually beneficial to this material. The presence of cracks in the hardfacing, at the correct frequency and spacing, allows the plate to be rolled, formed and bent without damage.
Fabrication	Cold formed, grinding, cutting - drilling (plasma, water jet, laser).
	AND CARBIDE CONTENT

MICROSTRUCTURE AND CARBIDE CONTENT



Carbide content ≈ 60%



Typical look of VORAX wear plates