

	Description	Applications	Fixation	Dimensions	Fysical and chemical properties
WEAR RESISTANT PLATES	carbide deposit is welded to a mild steel base plate. After hardfacing the wearplate is formed by plasma cutting according to drawing. The visible cracking which is limited to the hard		in the metallic structure. Vathard plates are formed according to	Vathard standard sheets: 3.400 x 1.400 mm Standard thicknesses: base plate + hardfacing 2 + 2 mm 3 + 2 mm 5 + 3 mm 6 + 4 mm 8 + 5 mm 8 + 7 mm 10 + 5 mm 10 + 7 mm 10 + 10 mm 12 + 5 mm 12 + 8 mm 15 + 5 mm 15 + 10 mm	Composition: complex chrome carbide Hardness: 62 HRc High temperature grade: typical hardness: 20° C 62 HRc 550° C 54 HRc 650° C 50 HRc Base plate mild steel or stainless Aspect: hardfaced layer with cracks. Machinability: only by grinding
ALUMINA	Sintered alumina products are developed specifically to combat erosion caused by the impact of solid particles. It can be manufactured by a variety of process routes including iso-pressing, dry pressing, die casting, extrusion and slipcasting. The	pneumatic and hydraulic conveying, pulverised fuel pipes, fan casings, skip cars, scraper blades, ash liners, hoppers, trifurcation sections. Pipes and bends have been developed to	By mortar as brickwork. By a flexible, heat resistant adhesive for permanent bonding of surfaces subject to impact, vibration or deflexion up to temperatures till 180° C. By special adhesives up to 250° C. At higher temperatures mechanical fixation is required by means of tongue and groove formed tiles, book end tiles, bolts and nuts.		Fired density (kg/m³) : 3.800 Grain size (μ) : 4 - 5 Flexural strenght (MPa) : 350 Open porisity : 0 Thermal conductivity : 14 - 25 W/mK Chemically inert

•	Description	Applications	Fixation	Dimensions	Fysical and chemical properties			
	Cast basalt	Tubes and bends for pneumatic and	The cast basalt tiles are fixed by a special	*standard dimensions	Colour: black			
		hydraulic conveying, classifiers, cyclones,	mortar. For superior impact resistant	tubes with nominal bore of 120 to 500	Fired density (kg/m³)			
	Cast basalt is a mineral product from vulcanic	mixers, crushers, bunkers, hoppers, chutes,	bonding we recommend our 2 components	mm length : 500 mm	Hardness (R45N) : 2.850			
	origin. The high density basalt rocks are	chain conveyors, etc.	flexible epoxy resin binder.	thickness: 20 to 30 mm	Fracture toughness as measured			
	crushed to a certain particle size and fused in a			*hexagonal tiles: 200 x 200 x 20 mm x 6	by wedge indentation (MPa m½): 2.0			
	furnace at hgh temperature.			mm thickness	Compressive strength: 550 N/mm			
	The molten basalt is cast into metallic or			250 x 250 x 30 mm thickness	Flexural strength (MPa) : 40			
_	sandmoulds and for tubes in centrifugal			Square and rectangular tiles	Coefficient of thermal expansion			
	moulds. A well controlled cooling is required			200 x 100 x 25 mm	(per K) 8.0 x 10 ⁻⁶			
S)	to obtain the superior qualities of our cast			250 x 125 x 30 mm				
BA	basalt as wear resistance and compressive			200 x 200 x 25 mm				
	strength.			250 x 250 x 30 mm				
AS	The surfaces are generally smooth in order to			250 x 125 x 25 mm				
5	prevent sticking. Our cast basalt is wellknown			200 x 100 x 40 mm				
	for his chemical inertness and lack of porosity.			250 x 250 x 25 mm				
				200 x 200 x 40 mm				
				200 x 100 x 30 mm				
				250 x 125 x 40 mm				
				200 x 200 x 30 mm				
				250 x 250 x 40 mm				

	Polyester polymers	Bogie-Trunion-pivot bushes and thrust		Rods : nominal bore from 20 tot 150 mm	Density: 1.38
LYESTER POLYMERS		washers, kingpins, idler wheel bushes, crane		Tubes: diam.: 60 to 320 mm length 360	Melting point : 260° C
	For low lube and lube-free long life bushes.	wheel bearings, guide shoes, guide locks,		mm	Standard temperature applications: 100° C
	Specially formulated polyester polymers have	wear strips, wear guides, etc.		Bearings: diam.: 40 to 130 mm	Tensile strength at yield: 65 MPa
	been used successfully as a most suitable			leng h : 400 mm	Tensile strenght at break : 62 MPa
	material for bushes.			Plates : thickness : from 3 to 50 mm	Elongation at break : 26 %
	It combines a load-bearing capacity greater			1000 x 200 mm	Flexural strength: 120 MPa
	than that of white metal with selflubricating			500 x 400 mm	Coefficient of linear thermal
	properties better than those of nylon, while			Discs : thickness: 3 - 6 - 10- 12 - 15 mm	expansion 6 mm/mm x K x 10 ⁻⁶
	giving up to 10 times longer service life than			Ø300 mm	Hardness (Shore D): 84
	phosphor-bronze.			thickness: 3 . 6 . 10 . 12 mm Ø	
B				500 mm	
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VATHARD WEAR RESISTANT PLATES



ALUMINA

