

	White cast iron	Page 1(1)
	Mekava GJN XCr25	Approved: T.S.
21.11.2019		

Mekava GJN XCr25 is a high chromium alloyed wear resistant white cast iron

Chemical composition

	C %	Si %	Mn%	P %	S %	Cr %	Ni %
min.	2,6		0,5			24,0	
max.	3,0	1,0	1,5	0,08	0,08	29,0	0,5

Delivery conditions

Castings can be delivered as cast, stress relieved, annealed or hardened.

Hardness in different conditions

Condition	HRC	HB
Cast, cast + stress relieved	min. 46	min. 450
Annealed	max. 41	max. 400
Hardened	min. 57	min. 630

Related standards

EN 12513:2011	ASTM A532
EN-GJN-HB555(XCr23), nr. 5.5610	Class 3 Type A

Information about wear resistance and weldability

The good abrasive wear resistance of Mekava GJN XCr25:n is based on micro structure, which includes chromium carbides in martensitic matrix about 35 % of total volume. Relatively low carbon content affords a reasonable toughness and improves impact wear resistance.

Welding is not recommended.

Typical applications are components of pumps for wearing slurries and parts of equipment for concentration of minerals.

The corrosion resistance of Mekava GJN XCr25:n is good. The contacting materials in practice do not cause problems.