

 21.11.2019	High-silicon cast iron	Page 1(1)
	Mekava High Si 1	Approved: T.S.

Mekava High Si 1 is wear and corrosion resistant cast iron with a high silicon content

Chemical composition

	C %	Si %	Mn%	P %	S %	Cr %	Mo %	Cu %
min.	0,55	14,50						
max.	1,15	16,20	1,00	1,00	0,10	0,50	0,50	0,50

Hardness of castings

Wall thickness 30 mm, guidance value 52 HRC

Related standards

EN designation	ASTM A518
GX90Si15	Grade 1

Information about wear and corrosion resistance

Mekava High Si 1 is resistant in circumstances, where influence of erosion and acids are present. Especially the material is durable in sulphuric acid and slurry in all concentrations and temperatures up to 350 °C. However the corrosion resistance is poor, if hydrochlorid acid or chlorides are present.

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