

Carbon steel balls AISI 1010- 1015-1045-1086 (C10-C15-C45-C86)

property

through-hardened carbon steel balls AISI 1045-1086

higher wear / and resilience as case-hardened carbon steel balls;
cheaper than 100 Cr6-chrome steel balls

case-hardened carbon steel balls AISI 1010-1015

Surface case-hardened;

have comparable hardness as through-hardened carbon balls

applications

bicycle and furniture industry, plain, fittings and mounting parts of the furniture industry;
pulleys, wheels, bearings and toys in general

diameter from 0,500 mm to 20,000 mm (to 50,000 mm C15)

grade G40 - G1000
ISO 3290 / DIN 5401 / AFBMA

chemical composition

material	C %	Si %	Mn %	P %	S %	Cr %	Al %	Cu %
AISI 1086 1.0616 C86D	0,83 - 0,88	0,10 - 0,30	0,50 - 0,80	≤0,035	≤0,035	≤0,15	≤0,01	≤0,25
AISI 1060 1.0601 C60	0,57- 0,65	≤0,40	0,60- 0,90	≤0,045	≤0,045	≤0,40		
AISI 1055 1.0535 C55	0,52- 0,60	≤0,40	0,60- 0,90	≤0,045	≤0,045	≤0,40		
AISI 1045 1.0503 C45	0,42- 0,50	≤0,40	0,50- 0,80	≤0,045	≤0,045	≤0,40		
AISI 1035 1.0501 C35	0,32- 0,39	≤0,40	0,50- 0,80	≤0,045	≤0,045	≤0,40		
AISI 1015 1.0401 C15	0,12 - 0,18	≤0,40	0,30 - 0,60	≤0,045	≤0,045			
AISI 1010 1.0010 C8D/D9	≤0,10	≤0,30	≤0,50	≤0,070	≤0,060			