



### FORGED STEEL BALL CHEMICAL ELEMENTS AND HARDNESS

Material	Chemical elements				
	C	Si	Mn	P/S	Cr
B2	0.72-0.85	0.17-0.37	0.7-1.0	<0.025	0.4-0.6
60Mn	0.55-0.65	0.17-0.37	0.7-1.0	<0.04	<0.25
45#	0.42-0.50	0.17-0.37	0.5-0.8	<0.035	≤0.25
B3	0.58-0.66	1.3-1.9	0.65-0.8	<0.025	0.7-0.9
GCr15	0.95-1.05	0.15-0.35	0.25-0.45	<0.025	1.4-1.65

### Hardness

Material	25mm-50mm HRC		60mm-90mm HRC		100mm-125mm HRC	
	Surface	Core	Surface	Core	Surface	Core
B2	60-65	58-62	58-63	50-55	56-60	40-45
60Mn	58-63	55-60	58-63	40-45	56-60	30-35
45#	55-58	45-55	55-58	30-35	50-55	25-30
B3			60-65	58-63	56-65	55-63
GCr15	60-65	60-65	60-65	58-63	58-63	57-62