

ZYS 9Cr18, 9Cr18Mo stainless steel ball

9Cr18, 9Cr18Mo material chemical composition

Steel grade	Carbon	Manganese	Silicon	Chromium	Nickel	Copper	Sulfur	Phosphorus	Molybdenum
Stainless steel 9Cr18	0.90/1.00	≤0.70	≤0.80	17.0/19.0	≤0.60		≤0.030	≤0.030	
Stainless steel 9Cr18Mo	1.00/1.10	≤0.80	≤0.50	16.0/18.0			≤0.030	≤0.030	0.40-0.70

9Cr18, 9Cr18Mo material mechanical properties

Heat treatment	σ_b Mpa	σ_s %	Ψ %	HRC/HBW
Quenching and tempering state	---	---	---	≥58 HRC
Annealing state	755	14	27.5	230-240 HBW

9Cr18, 9Cr18Mo High carbon chromium stainless steel ball specifications

Nominal diameter of steel ball		Nominal diameter of steel ball		Nominal diameter of steel ball	
mm	in	mm	in	mm	in
0.5		0.6		0.794	1/32
0.8		1		1.588	1/16
2		2.381	3/32	2.5	
2.778	7/64	3		3.175	1/8
3.5		3.969	5/32	4	
4.5		4.762	3/16	5	

5.159	13/64	5.5		5.953	15/64
6		6.35	1/4	6.5	
6.747	17/64	7		7.144	9/32
7.5		7.938	5/16	8	
8.5		9		9.525	3/8
10		11.112	7/16	12	
12.303	31/64	12.7	1/2	13.494	17/32
14.288	9/16	15.081	19/32	15.875	5/8
16.669	21/32	17.462	11/16	18.256	23/32
19.05	3/4	20.638	13/16	22.225	7/8