



Inch	1	1 ¼	1 ½	2	2 ½	3	3 ½	4	4 ½	5	5 ¼	5 ½	6
mm	25.4	31.8	38.1	50.8	63.5	76.2	88.9	101.6	114.3	127	133.3	139.7	152.4

Magotteaux keeps innovating and create new solutions for you. Our forged grinding media is offered in 2 different qualities:

Magotteaux mining grinding media forged

Magotteaux mining high impact grinding media forged

Chemical analysis

Diameter		Chemistry (weight %)										
		C		Mn		Cr		Mo	Si		P	S
Inch	mm	Min	Max	Min	Max	Min	Max	Max	Min	Max	Max	Max
1	25.4											
	30											
1 ¼	31.8											
1 ½	38.1	0.92	1.08	0.75	0.98	0.25	0.50	0.10	0.12	0.35	0.025	0.025
	40											
	50											
2	50.8											
	60											
2 ½	63.5											
	70											
3	76.2	0.92	1.08	0.80	1.08	0.42	0.73	0.10	0.12	0.35	0.025	0.025
	80											
3 ½	88.9											
	90											
3 ½	88.9											
	90											
4	101.6	0.70	0.90	0.80	1.08	0.50	0.73	0.10	0.12	0.35	0.025	0.025
4 ½	114.3											
5	127.0											
5 ¼	133.3	0.70	0.90	0.80	1.08	0.87	1.08	0.10	0.17	0.40	0.025	0.025
5 ½	139.7											
6	152.4	0.60	0.90	0.80	1.08	0.87	1.08	0.10	0.17	0.40	0.025	0.025

Main factors to consider for a correct segmentation:

Ore & pulp characteristics	Mill characteristics	Operating parameters
Mineralogy Granulometry Water quality	Type of mill Type of discharge Mill dimension Liner design	Grinding media size % filling degree Speed of rotation

Hardness

Diameter		Nominal Weight (g)	Normal Impact Grade (HRC)				High Impact Grade (HRC)			
			Surface Hardness		Volumetric Hardness		Surface Hardness		Volumetric Hardness	
Inch	mm		Min	Max	Min	Max	Min	Max	Min	Max
1	25.4	84.6								
	30	135								
1 ¼	31.8	159								
1 ½	38.1	265	58	64	58	64	N/A	N/A	N/A	N/A
	40	305								
	50	578								
2	50.8	605								
	60	980								
2 ½	63.5	1155								
	70	1534								
3	76.2	2004	58	64	58	64	54	60	54	60
	80	2350								
3 ½	88.9	3190								
	90	3306								
3 ½	88.9	3190								
	90	3306								
4	101.6	4704								
4 ½	114.3	6892	56	62	56	62	52	58	52	58
5	127.0	9346								
5 ¼	133.3	10760								
5 ½	139.7	12324								
6	152.4	15883	54	60	54	60	50	56	50	56

Magotteaux
mining
grinding media
forged

Packaging options

Bulk, drum or bag for road, rail or sea transport



The information and data in this data sheet are accurate to the best of our knowledge. They are intended for general information only. Applications as suggested are described only to help readers make their own assessment. They are neither guarantees nor to be construed as express or implied warranties of suitability for these or other applications.



Process optimization services and products for abrasive and impact applications