



To define the optimal grinding media for your mill, our experts analyze a set of critical factors. They use our proprietary databases, simulation tools, laboratory testing results, field trial results and many more items to technically segment your application.

Key elements for grinding media selection are:

1 Identification and evaluation of the different wear mechanisms:

Abrasion	Impact	Corrosion
High	High	High
Medium	Medium	Medium
Low	Low	Low

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	

More than 100 alloys are available to fit all your requirements!

Magotteaux keeps innovating and creates new solutions for you.

Our cast high chromium grinding media is offered in 2 different qualities:

Magotteaux mining grinding media
One cast high chromium

Magotteaux Mining grinding media

cast high chromium

Magotteaux mining grinding media

cast high chromium



Process optimization services and products for abrasive and impact applications

2 Evaluation on the downstream processing

Further to the choice of high chromium grinding media based on wear mechanisms (see left), its choice can also have a profound impact on the pulp chemistry. This can affect the recovery process and lead to a reduction in reagent consumption and an increased metallurgical performance (grade/recovery).

Magotteaux

minina

process optimization solutions

is our unique holistic approach. It helps you to maximize

the return from your concentrator.

Grinding ball range				
Nominal DIA* (inch)	Nominal DIA* (mm)	Weight (g)	Surface (cm²)	
± 1/2	13	8	5.31	
	15	13	7.07	
± 5/8	17	19	9.08	
± 3/4	20	32	12.57	
7/8		43	15.51	
±1	25	62	19.64	
± 11/4	30	128	31.67	
± 1½	40	256	50.27	
± 2	50	500	78.54	
	60	864	113.10	
21/2		1 048	126.68	
	70	1 372	153.94	
± 3	80	2 048	201.06	
± 31/2	90	2 916	254.47	
± 4	100	4 000	314.16	
	110	5 325	380.13	

* from 20 mm and above, balls are staggered

Packaging options

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







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