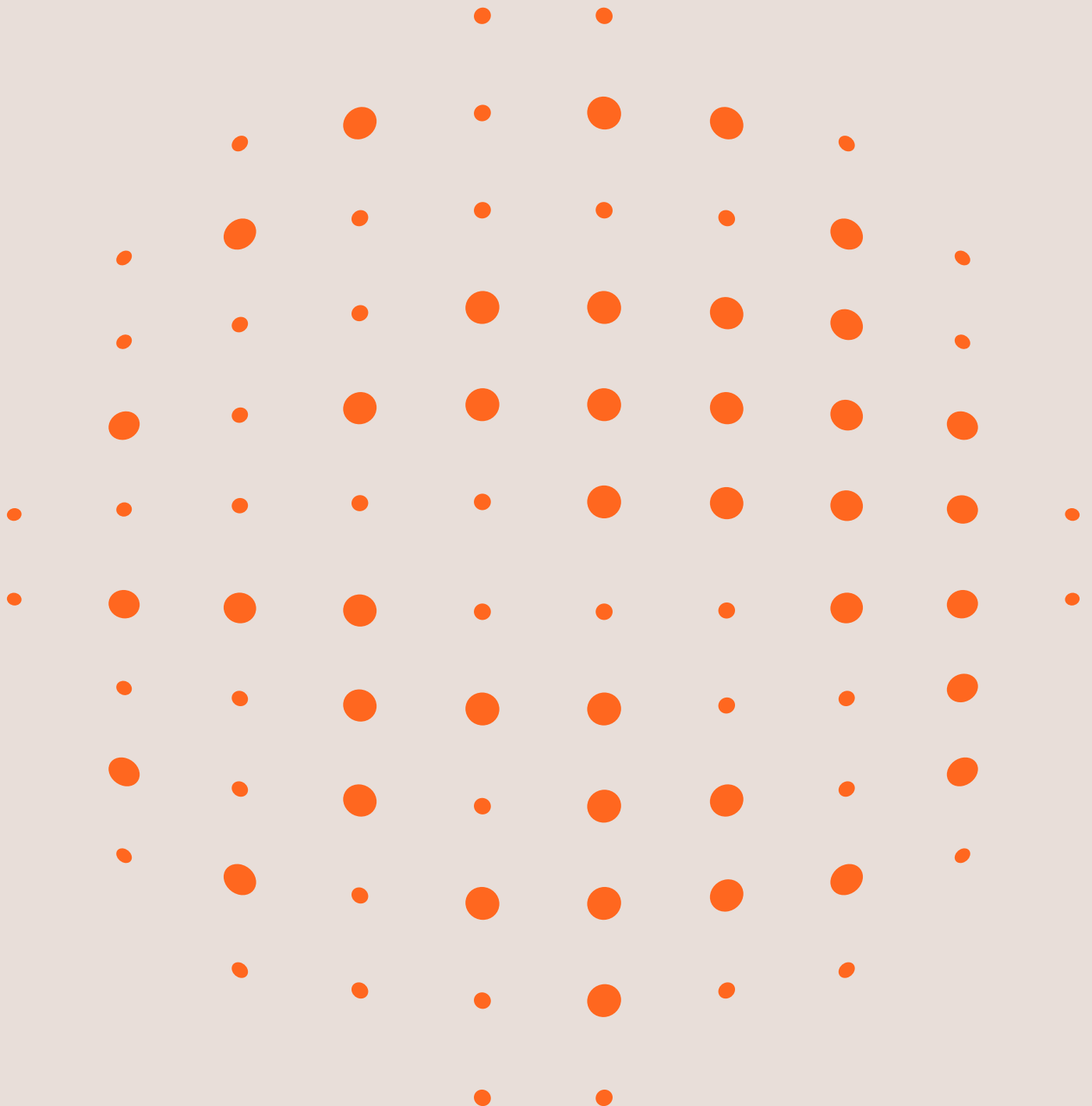


Grinding Media



Version 2.0





Molycop is a pioneer in breakthrough technologies and cutting-edge solutions that transform the way mines operate. More than a supplier, we are collaborative partners who care about delivering effective outcomes that propel our customers to new heights.

We're backed by a strong track record and an even stronger team with approximately 1500 experienced people around the globe, servicing 400 mines across 40 countries. We have an extensive global footprint, including 15 major operational sites in Africa, Australia, Canada, Chile, Indonesia, Mexico, Peru, Spain and USA, supported by a local sales, service and distribution presence throughout all major mining regions.

As one of the largest and most experienced suppliers of mining consumables and associated services worldwide, our quality is widely recognised as the industry-leading standard, and our relentless pursuit of excellence ensures no mine ever stops over Molycop. We pride ourselves in continuously evolving, always innovating and looking forward to how we can create products and services that enable your team to truly reach their potential.

Molycop provides a full range of grinding media – including forged balls, cast high-chrome balls, grinding rods and ceramic media – as well as flotation chemicals and a range of advanced instrumentation, process control solutions and data analytics.

Beyond our products and services, we are committed to supporting the development and innovation of our industry through our education and training programs.

Most importantly, at the core of Molycop, we are passionate about working alongside our partners and communities to accelerate and support the sustainability of the mining industry so we can provide a better future for all.

Learn more at www.molycop.com



Sabo by Molycop grinding media gives customers around the world value and quality credentials that deliver confidence and assurance in operating effective and efficient mines.

Sitting within Molycop, Sabo by Molycop customers benefit from our network's global expertise and proven track record in supply chain certainty meaning that Sabo products are delivered on time every time, enabled by Molycop's network of supply chain partners, the Molycop global network, and our local sales and service expertise.

Synonymous with grinding media, Molycop provides Sabo with access to the group's extensive technical expertise and know-how to deliver a range of forged, high-chrome and ceramic grinding media. Sabo by Molycop grinding media is specified and supplied to specific criteria for chemical composition, volumetric and surface hardness designed for the Sabo by Molycop range of products.

Simply put, Sabo by Molycop delivers a quality product at great value – providing assurance in product quality and delivery backed by Molycop.

Why Sabo by Molycop?

- Global supply chain network.
- Local service in all key mining regions.
- Complete grinding media product range.
- Decades of experience.
- Product supplied to specific criteria.
- Technical support and training.



Nominal Ball Diameter in inches (in) and (mm) / Mass in (g)

Ball Diameter (in)	Ball Diameter (mm)	Minimum Mass (g)	Maximum Mass (g)
0.8	20	28	44
1.0	25	57	81
1.2	30	100	134
1.6	40	243	304
2.0	50	482	576
2.4	60	821	1025
2.8	70	1318	1594
3.1	80	1983	2344
3.5	90	2842	3298
3.9	100	3859	4612
4.3	110	5165	6074
4.9	125	7630	8801

Chemistry (Weight%)

Ball Diameter		C		Mn		Si		Cr		Mo	
in	mm	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
0.8	20	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
1.0	25	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
1.2	30	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
1.6	40	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
2.0	50	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
2.4	60	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
2.8	70	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
3.1	80	0.7	0.9	0.6	0.9	0.15	0.37	0.2	0.9	0	0.035
3.5	90	0.55	0.68	0.4	0.9	1.3	1.9	0.6	0.9	0	0.035
3.9	100	0.55	0.68	0.4	0.9	1.3	1.9	0.6	0.9	0	0.035
4.3	110	0.55	0.68	0.4	0.9	1.3	1.9	0.6	0.9	0	0.035
4.9	125	0.55	0.68	0.4	0.9	1.3	1.9	0.6	0.9	0	0.035
S Max (≤0.035)						P Max (≤0.035)					

Hardness (Rockwell C)

Ball Diameter		Average Surface Hardness		Average Volumetric Hardness	
in	mm	Min.	Max.	Min.	Max.
0.8	20	60	65	60	65
1.0	25	60	65	60	65
1.2	30	60	65	60	65
1.6	40	60	65	60	65
2.0	50	59	64	59	64
2.4	60	59	64	59	64
2.8	70	59	64	59	64
3.1	80	59	64	59	64
3.5	90	57	63	57	63
3.9	100	56	62	56	62
4.3	110	56	62	56	62
4.9	125	56	62	56	62



Sizes

Sabo by Molycop grinding media is available from 20mm (0.8 inch) up to 125mm (4.9 inch).

Common nominal sizes are:

Inches (in)

0.8	1.0	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9	4.3	4.9
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Millimeters (mm)

20	25	30	40	50	60	70	80	90	100	110	125
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Packaging Options

Bulk

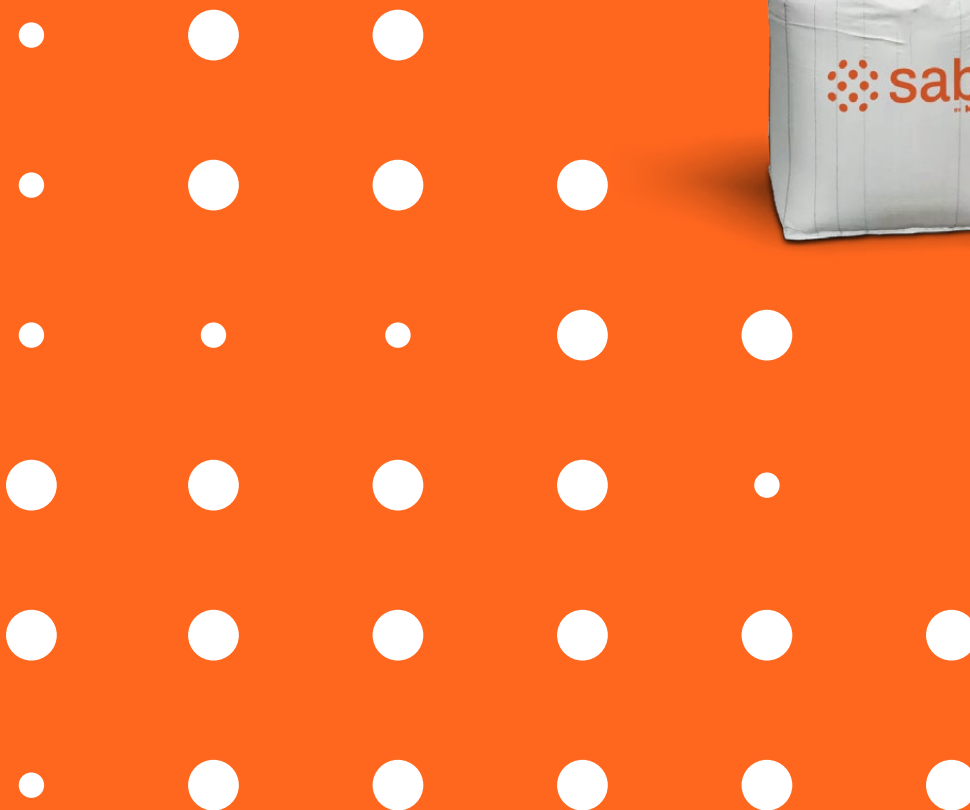
Balls can be transported in bulk open top trucks, open top rail cars, or in standard 20ft containers.

Bags

Balls can be supplied in polypropylene bags which have secure bag straps to reduce time and effort in loading and unloading. While bags are treated to resist UV rays, bags should be protected from direct sunlight to maximise shelf life.

Drums

Recycled drums can also be supplied. Drums are more efficient for some modes of transportation and can also be delivered on wooden pallets.





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