

SAG Mill Liners - Shell & End

Product datasheet - grinding media and wear parts

SAG mill liners take the same impact energy as the balls but over a much larger area, so the alloy has to balance work-hardening toughness with abrasion resistance. Grindium casts shell liners, feed end liners, discharge end liners and lifter bars in Mn13Cr2, Mn18Cr2, Cr-Mo and high chrome Cr26, from 30 kg to 6 t per piece.

Liners are pattern-made from your mill drawing or from a worn liner sample. We check the bolt hole pattern, the lifter profile and the gap between plates before casting, so the set fits the first time without on-site grinding.



Material selection

Material	Hardness	Impact	Best for
Mn13Cr2	HB 180-220 (work hardens to 450+)	Very high	Feed end and high-impact zones
Mn18Cr2	HB 180-220 (work hardens to 500+)	Very high	Large SAG mills, coarse ore
Cr-Mo steel	HB 300-380	Medium	Shell liners in abrasive ore
High chrome Cr26	HRC 58-62	Medium	Discharge grates, low-impact abrasion
Composite (steel + ceramic)	HRC 60+ at wear face	High	Long-life shell liner sets

Packing and delivery

Item	Packing	Typical lead time
Shell liner set	Steel frame crate, 20-25 t per 40 ft	35-45 days
End liners	Plywood crate, 20 t per 20 ft	30-40 days
Grate plates	Plywood crate, 24 t per 40 ft	30-40 days

Typical applications

Shell liners with lifter bars, wave or step profile; Feed end liners and head liners; Discharge end liners and grate plates; Trunnion liners and pulp lifters; Bolts, washers and seal rings as a set.

Ordering notes

Minimum order, lead time and packing are confirmed against the size mix or drawing in your enquiry. Each shipment carries a test report with chemistry, hardness, impact value and breakage rate for the heat. Payment terms: T/T with 30% deposit, or irrevocable L/C at sight. Shipping: FOB Qingdao, CIF or DAP.

Ordering and technical support

Send the mill type, media size or liner drawing, quantity and destination port. We reply with a quotation, packing plan and lead time within 12 hours.

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Product page: <https://grindium.com/products/mill-liner/sag-mill-liners/>

