

PRONAMIC® H1 tires and grinding plates

for Raw Material, OPC/Clinker/Slag, Coal

PRONAMIC® H1 are composite tires and grinding plates, manufactured with proprietary technologies, materials, and procedures.

PRONAMIC® H1 tires and grinding plates are composite elements that include tough structural steel, transition layers and wear-resisting layers. This data sheet refers to the final assembly, and not the individual components or component parts.

With adequate materials, equipment, and procedures by Loesche, **PRONAMIC® H1** can be reused, refurbished, repaired, and recycled.

Applications

PRONAMIC® H1 tires and grinding plates are designed for abrasive applications under compression (three body abrasion), providing longer service life than white iron castings.

Restriction: **PRONAMIC® H1** grinding parts should not be used for metal-to-metal contact or impact loading.

Variants

PRONAMIC® Variant	Usage
PRONAMIC® H1 - Raw	Cement raw mill applications
PRONAMIC® H1 - OPC/Cement/Slag	OPC and composite cements, blast furnace slag, slag cements and fly ash containing mixes
PRONAMIC® H1 - Coal	Hard coal, lignite, anthracite, and pet coke

Note: The variant must be specified when ordering.

Physical and chemical properties

The outer abrasion-resistant layers of **PRONAMIC® H1** grinding parts consist of narrow weld beads in the as-welded state, with a dispersion of fine stress-relief cracks (“check cracks”). The layers contain primary chromium carbides and eutectic carbides of the type M_7C_3 type and comply with specification standard EN 14700, type T Z Fe16.

Chemical analysis (wt. %)				
C	Si	Mn	Cr	Fe
4.5 - 6.0	1.5 max.	1.0 max.	25.0 - 29.0	Balance
Hardness				
61 – 65	HRc			

Resurfacing/refurbishing

For best results, **PRONAMIC® H1** tires and grinding plates should be resurfaced/refurbished according to the recommended Original Equipment Manufacturer recommendations and supervision, using **PRONAMIC®** wires. Use of ordinary wires may result in low performance, short service life and failure in service.

For maximum abrasion resistance and fast refurbishment, the top-up should be carried out before the hard layer is completely worn off.

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.