

TEKNIKUM® Polyurethane Mill Linings



Teknikum® Polyurethane Mill Linings are made of highly wear resistant polyurethane compounds that were specially developed for various mining and grinding mill applications.

The polyurethane mill linings are best suited for ball mill secondary stage grinding process. All polyurethane mill linings are mold casted and customized for customers' mills and processes.

The components are designed individually for each application. Polyurethane grade and products' shape should be chosen according to grinding and process parameters and throughput needs.

The mill lining can be all polyurethane or combination of steel top and polyurethane liners for best performance.

ADVANTAGES

- Thickness of polyurethane can be modified according to specific mill and process values
- Excellent wear resistance
- Easy installation with dedicated fixing system
- Liner can be equipped with lifting points for easy installation and handling

TECHNICAL PROPERTIES

Polyurethane materials

The liners are made of wear resistant Teknikum® polyurethane materials depending on the application.

Attachment system for polyurethane mill liners

Teknikum® Mill Liner Attachment is system, based on fixing profile (aluminum or steel) on lifter bar and clamp blocks or T-bolt type fixing system. Range from M16 to M36.

Liner type selection

The liners type can be selected depending on the process, lining type, mill loads and chemical conditions. The liner dimensions: lifters, shell plates or head plates can be chosen depending of mill and conditions and component wear life requirements.

In Teknikum mill liner components and attachments system, all components for complete mill lining are available for various types and sizes of overflow and grate discharge mills.

Teknikum® Polyurethane Liner components for grinding mills:

- **Polyurethane Lifters** for mill heads and shell
- **Polyurethane Shell Plates** for mill shell
- **Polyurethane Head Plates** for mill heads
- **Filling segments** for mill heads
- **Center rings** for mill heads
- **Polyurethane Grate Plates** for mill discharge heads
- **Discharge Pulp Lifter Systems** for mill discharge head.
- **Mill man door liner** for mill shell man door

- **Attachments system** for mill heads and shell clamp block or T- bolt based system.

COMPLIANCY

Suitable for:

- Overflow, grate discharge mills
- Ball, AG and Pebble mills
- Secondary /Tertiary grinding
- Grinding medias: balls, pebble, cylpebs
- Ore materials: gold, copper, phosphate...
- Minerals: lime, talc...

MANUFACTURER

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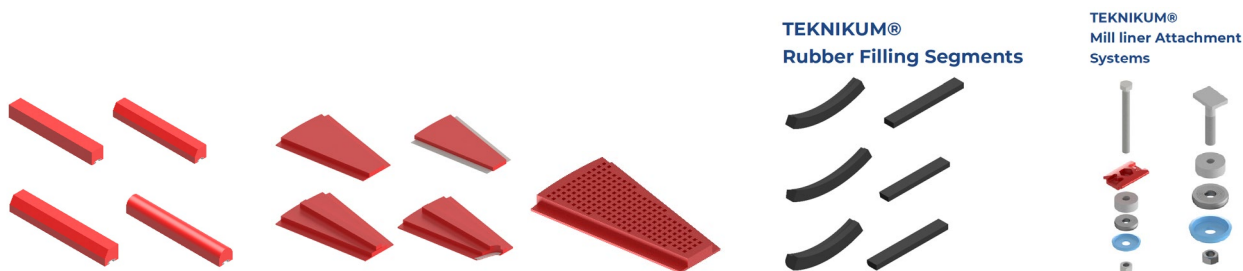


PROPERTY & RECOMMENDATION CHART FOR POLYURETHANE

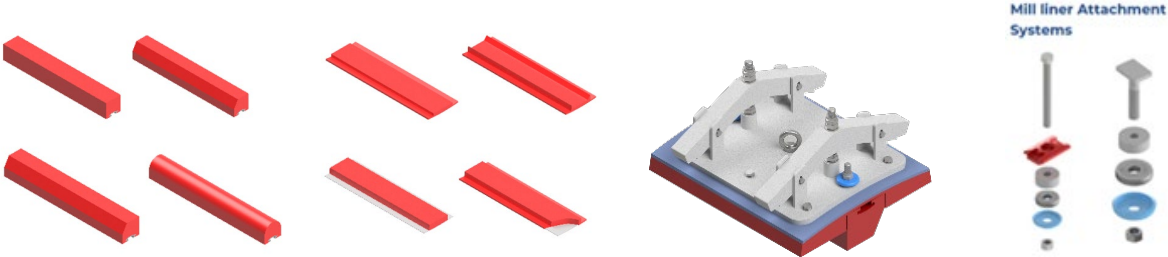
Version	Hardness	Abrasive wear resistance (1-5)	Tear & impact wear resistance (1-5)	Grinding stage (primary,secondary tertiary)	Maxium operation temperature (°C)
PU-112	90 ± 5	5	3	secondary	+70°C
PU-133	70 ± 5	5	4	secondary	+50°C

REFERENCE IMAGES

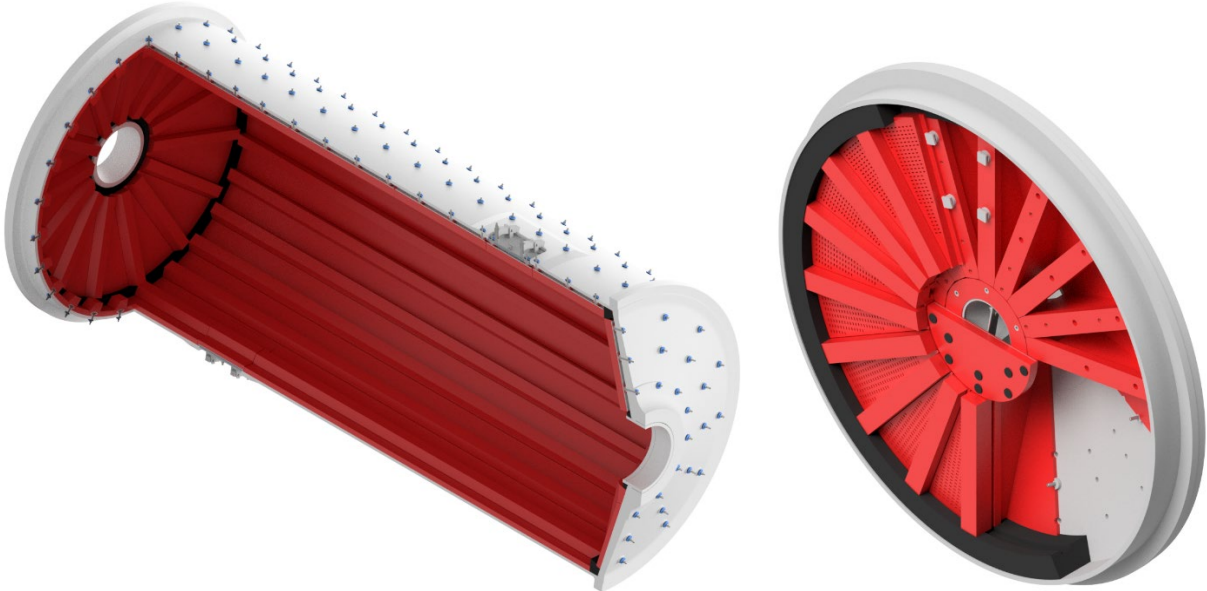
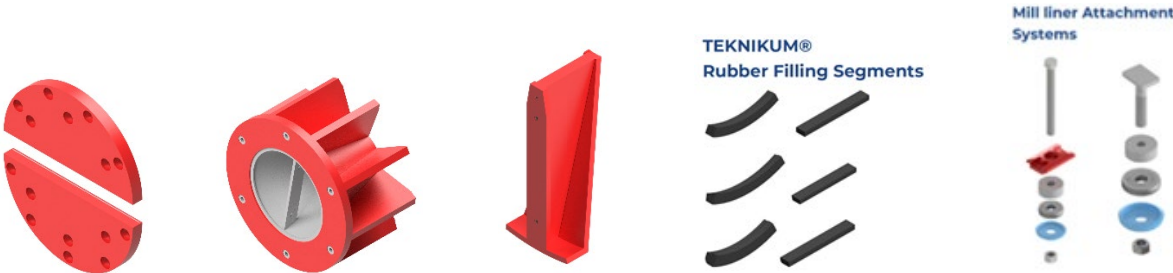
Feed- and discharge head liners for overflow and grate discharge mills:



Shell liners for overflow and grate discharge mills:



Polyurethane pulp lifter discharge systems for grate discharge mills:



Teknikum® Polyurethane Mill Linings for overflow and grate discharge mills