



RIKASTE

...finer grinding

Our cylpebs are made from cast iron.

Cylpebs have equal length and diameter, and the shape is slightly tapered and cylindrical. They are used in the mineral processing industry for wet and dry mineral grinding.



Advantages of using cylpebs instead of grinding balls

Cost saving solution for finer grinding:

Cylpebs have approx. 14% greater surface area than balls of equal weight, which affects the grinding result. Greater surface area combined to density delivers 25% greater grinding capacity in ordinary mill charge. Cylpebs bulk density is 9% higher than steel balls and 12% cast balls.

The greater surface-to-surface contact with cylpebs grinding is more intense than balls. Also there is less media-to-media impact with cylpebs which has been proven to increase recovery. More gentle grinding process because of large grinding surface without impacts is key for better side ore recovery. Rikaste cylpebs shape is cylindrical and slightly tapered. Hardness remains similar throughout the whole cylpebs. Because of equal hardness and unique form, shape retention is better than balls for the entire grinding life of cylpebs.

Many large mining companies such as Norilsk Nickel, Ural Mining and Metallurgical Company, KGHM Polska Miedz have changed from grinding balls to cylpebs as their primary grinding media after intensive testing to confirm the superior results.



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...the superior quality of Rikaste cylpebs is ensured by constant quality control in the factory's laboratory and QHSE department. For example, the hardness and chemical composition are tested multiple times every hour.



Environmental friendly solution:

The above mentioned facts also influence mill rotation speed. Mill speed can be reduced when grinding with cylpebs. Lowering the mill rotation speed reduces energy consumption. According to feedback from our customers, and also according to factory testing, average decrease of energy consumption is 2-3%.

Volumetrically and consumption remains in similar level with balls.

More efficiency grinding process:

Optimal filling of a mill is an homogenous mass which consists of grinding media and feed material with minimal voids.

Typically mills are filled up with equal size and diameter grinding media but particle size of feed material varies significantly. The shape and form of cylpebs creates lower void space than balls. This means higher filling rate and also higher throughput and reduced retention time in the mill.



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Longer lifetime for your mill lining:

Optimal filling rate, reduced speed of mill rotation, and unique form and shape of cylpebs affect to the consumption of mill linings. The grinding process with cylpebs increase the life time of metal and rubber linings.



Our standard stock sizes are (mm):

12 x 12

16 x 16

25 x 25

35 x 35



We have made various customized cylpebs for our clients. Based on the customer needs we can customize cylpebs consistency and size starting from 8 x 8.

We will provide our technical support and know-how to you throughout the whole process, starting from trials and ending with full utilization of Rikaste cylpebs as your primary grinding media.





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... We are the exclusive supplier in Scandinavia of cylpebs made by the Pashiskiy factory in the Russian Federation. The quality and reputation of cylpebs are guaranteed by more than 60 years of manufacturing experience.



No matter where your enrichment plant or mills are located in Scandinavia, we will deliver our cylpebs for quickly and reliably. Our professional logistics operators and factory warehousing ensure high availability of Rikaste cylpebs and fast delivery to your premises.

If you are located outside Scandinavia please do not hesitate to ask for our proposal of how we can support you.

Let Rikaste help you select the right size, content and hardness of cylpebs. We will support you during the test period and throughout your transition from current grinding media to Rikaste cylpebs.

Please let us know your needs. You can send your inquiries to:

sales@rikaste.com

Contacts:

Kauko Tanninen, MBA

CEO

+7985 226 1491

+358 40 7747127

kauko.tanninen@rikaste.com