

Beaudrey Cleaning Sponge Balls

Beaudrey is an engineering and construction company specialized in the design, fabrication and installation of debris filters, Zero Ball Lose® systems and condenser tube-cleaning systems.

The feed-back from over 100 years of experience has ensured the constant improvement of these machines which use the most up-to-date technical features, components and materials.

The sponge rubber balls are the necessary maintenance products for power plants and other industry, which need to clean the inner side of condenser tube and the ultrafiltration membrane module.

As we know, for power plants and other industries, the heat exchange coefficient is the most important factor for condenser and heat exchanger. The factor will affect the production efficiency of the whole power generation system. The mineral in the hard water will be separate out and deposit on the inner side of the condenser tube, and become incrustation.

Any dirty substance in the water will deposit on inner side of the tube. All the deposits will reduce the heat-exchange coefficient. The sponge rubber balls can clean all the incrustation and deposit on the inner side of the tube, and ensure the equipments to run efficaciously.

Products

Beaudrey produces 4 kinds of sponge rubber balls. Which are:

- Standard sponge ball (BS).
- Abrasive fully plastic coated ball (BP),
- Abrasive fully carborundum coated ball (BF),
- Abrasive ring carborundum coated ball (BR),
- => Other kind of sponge balls available on simple request.

The diversity of products can satisfy all kinds of needs for tube cleaning. They are used in different machine in different conditions. These balls can clean all the equipments of power plants and other industries that need maintenance.

Our sponge rubber balls are produced with selected high quality raw nature materials. As a result, these have a longer useful ball life. They can continue to work about 400 hours in normal conditions.





Type and usage

1 - Standard ball:

The standard balls are based on the regular balls that were peeled off, thus they are softer and more elastic. Their surface are coarser, so they can remove deposits and grime build-up easily. Standard balls are used in most conditions that have no special requirements. We recommend continuing the use use of these balls for fresh water and salt water. For most customers, the standard sponge ball is their first choice.

For new equipment, Very soft and soft balls are the best choice. For equipment in routine use, medium and medium hard balls are recommended. If heavy duty is required, then hard balls are the suggested choice.





2 - Abrasive fully plastic coated ball:

Plastic granule balls are formed with plastic granule on the surface. There is a tiny hole in each granule, so this ball can absorb water easier. The granule on the surface can help to remove some substance stuck on the inner side of the condenser tube. So they are used in some very difficult case. If there are some blind corners in the tube, the plastic granule ball is the best choice.

3 - Abrasive fully/ring carborundum coated ball

We offer two abrasive balls with a surface coating of carborundum. They are ring coated carborundum and fully coated carborundum balls. The carborundum is very hard. It can abrade hard deposits on the inner side of the tubes. So if on your condenser tube there is something stuck on the inner surface and very difficult to remove, the carborundum-coated ball is the best choice.

But these balls can be harmful for soft tube. So they can ONLY be used in extremely difficult case, and they cannot be used continuously or very often. Never use them for new equipment, and never use them for brass tube and other soft tubes.

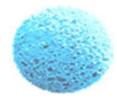
Ring carborundum coated ball only has a ring-like carborundum belt on the ball, so it will be recommended first for selection. For heavier duty, fully carborundum coated balls was recommended.



Abrasive fully carborundum coated ball



Abrasive ring carborundum coated ball



Abrasive fully plastic coated ball



Hardness and Charateristics

Beaudrey proposed each kind of sponge balls in 5 kinds of different firmness as describe below : $\underline{Example:}$ Standard balls series, soft hardness, 16mm diameter => BS-A-16 Fully Carborundum coated balls series, medium-hard, 31mm diameter => BF-D-31

Code	Hardness	Colour				
А	Soft	yellow				
В	Medium Soft	blue				
С	Medium	orange				
D	Medium hard	green				
Е	Hard	red				

Beaudrey reference code						
BS	Standard ball					
ВР	Plastic granule ball					
BR	Ring Carborundum coated ball					
BF	Ful Carborundum coated ball					

Characteristics						
Hardness tolerance	+/- 10kg/m3					
Diameter tolerance	0 / +1 mm					
Longevity	Extended life rubber formula					
Temperature	130°C max.					
Cautions	High flammable Do not use with acids, oils, fats and solvents					
Material	Natural rubber					

All diameters are available with all types and densities proposed.

Ball Diameter	Standard (BS)* Very Soft (A)	Standard (BS)* Soft (B)	Standard (BS)* Medium (C)	Standard (BS)* Medium Hard (D)	Standard (BS)* Hard (E)	carborundum coated (BF)	carborundum coated (BF)	Abrasive fully plastic coated (BP) Medium Hard	plastic coated (BP)	carborundum coated (BR)	carborundum coated (BR) Medium Hard	carborundum coated (BR) <i>Hard</i>	
15 mm													250
16 mm													250
17 mm													250
18 mm													250
19 mm													250
20 mm													250
21 mm													250
22 mm													100
23 mm													100
24 mm													100
25 mm													100
26 mm													100
27 mm													100
28 mm													100
29 mm													100
30 mm													50
31 mm													50
32 mm													50
33 mm													50
34 mm													50
35 mm													50
36 mm													50
37 mm													50

(Biger Diameters are available on request) $\,$

The size, or nominal diameter, refers to the inner diameter of the tube of which the sponge balls are used to clean. The diameter of the sponge ball in their dry state is slightly smaller than the nominal diameter. In the wet state, or working state, the sponge ball will be come a little bigger than the nominal diameter. That is how we want it to be. When you order sponge balls, please be sure to confirm the inner diameter of the tubes.

You can contact us for any further information you may need at :

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