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Ball Material Product List

Standard Materials	Size Range	Grade	Description	Applications
Brass	1/4" – 6"	200	Brass provides good corrosion resistance.	A corrosion resistant material suitable for valve, pump and non-sparking applications.
Aluminum	1/4" – 6"	200	Aluminum provides good corrosion resistance and medium strength.	A light weight material suitable for heat and electrical applications.
#440C Stainless Steel	1/4" – 5"	100	#440c Stainless Steel provides medium wear and mild corrosion resistance .	An affordable hardened material (56-61 RC) with corrosion resistant properties. Suitable for valve, pump & bearing applications.
316 Stainless Steel	1/4" – 4"	200	#316c Stainless Steel provides superior corrosion resistance and higher resistance to pitting.	Non-magnetic stainless steel used in valve and petroleum industries as well as food and dairy processing
SS302 – SS304	1/4" – 4"	200	These stainless steels are slightly magnetic & provide excellent corrosive properties.	Uses in clued food and chemical applications.
Cobalt Alloy	5/8" – 2-1/4"	100	Cobalt Alloy provides good wear and good corrosion resistance.	Uses include check valve, pump and dairy processing applications.
Nickel Carbide	3/4" – 2 1/4"	100	Nickel Carbide provides good wear and corrosion resistance, light impact resistance.	Uses include check valves, pumps and applications where corrosion and excessive wear are a problem.
Titanium Carbide	3/4" – 3 1/4"	100	Titanium Carbide provides good wear resistance and medium impact resistance.	A lighter weight carbide offering properties similar to Tungsten carbide.
Tungsten Carbide	3/4" – 2 1/4"	100	Tungsten Carbide provides good wear resistance and medium impact resistance.	Uses include check valves, pumps and applications where corrosion and excessive wear are a problem.
Silicon Nitride	1/8" – 3 1/4"	100	Silicon Nitride provides good wear and impact resistance.	Uses include bearing, check valve and pump applications.
Zirconia Ceramic	3/4" – 2"	100	Zirconia Ceramic provides good wear resistance, good impact resistance and good corrosion resistance.	Uses include valve and pumps applications.

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Non Standard Materials	Description	Applications
17-4 PH	17-4 PH provides superior corrosion resistance, good resistance to stress-corrosion cracking and erosion-corrosion.	Uses include valve and pump applications.
Chrome Steel	Chrome steel provides good wear, low corrosion resistance, bearing.	A hardened material (59-65 RC) with excellent surface quality, high hardness & load bearing capacity. It's primary use is for ball bearings
Bronze	Bronze is high-strength with mechanical properties and good toughness.	Uses include pumps, valves and petroleum related applications.
Nylon	Nylon has good corrosion and mild wear properties.	Uses include check valves, bearings and switches
Copper	Copper offers low corrosion and wear.	Uses include electronic and artistic applications.
Phenolics	Phenolics is a low density material, resistant to deformation under load	Uses include drop balls, down hole applications where low specific gravity is required
Hastelloy	Hastelloy is highly resistant to corrosion and wear	Uses include pump and check valves
K-Monel	K-Monel is highly resistant to corrosion.	Superior to Monel in mechanical applications.
Monel	Monel is highly resistant to corrosion.	Uses included in food and dairy industries.

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