

PHENOLIC FRAC BALLS

Sizes: 1/2" – 5"

Custom Sizes Available

MATERIAL PROPERTIES

Specific Gravity	1.32, 1.75
Specific Volume, Cubic Inch per Pound	20-22
Tensile Strength, lbs per Inch ²	8,000
Compressive Strength, lbs per Inch²	15,000 – 24,000
Impact Strength foot lbs per inch of Notch (Izod)	0.40-0.55
Modulus of Elasticity, Tension lbs per inch ² x 10-5 th	4
Thermal Conductivity 10-5 th per degree C	8
Specific Heat, Cal. Per degree C per gram	.3-.4
Heat Resistance, ° F	320°
Water Absorption, % by Weight, 48 Hours	0.4-0.6
Dielectric Strength: 50 Cycle Volts per Mil.	350-450
Power Factor, 60 Cycles	0.10
Burning Rate	Nil
Effect of Weak Acids	No Effect
Effect of Strong Acids	None-Slight Effect
Effect of Strong Alkalis	Decomposes
Effect of Aging	Hardens & Yellows
Effect on Metal Inserts	None
Machining Qualities	Excellent

Custom Formulated Cast 100% **Phenolic Balls** offer Excellent High Pressure Performance for **Frac Plugs, Valves, Pumps, and Flow Control**. They are a Suitable Replacement for Stainless Steel Balls in Down Hole Applications.



CIC BALL COMPANY

2280 Amber Drive Hatfield, PA 19440
PH: 215-822-3380 Fax: 215-822-3382
e-mail: sales@cicball.com
www.cicball.com