

Performance Alloys and
Services, Inc.

www.moldstar.com

Highly Engineered

**Beryllium-Free
Copper Alloys**

PLUS
State of the Art

**Engineering
& Machining**

*Where Performance is
MORE than JUST OUR
NAME*

Performance Alloys and
Services, Inc.

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Since 1987

Performance Alloys™



**High Performance Materials for
High Performance Applications**

**MoldStar®22 (MS22)
Premium Bronze Alloy**

- Is Wrought not Continuous Cast
- Extreme Wear Resistance
- Outstanding Load Bearing
- Resistant to Galling
- Natural Lubricity
- Work Hardening Characteristics

Performance Alloys' MoldStar®22 is a Premium Bronze alloy, made as a Wrought product, not Continuous Cast. The chemistry of the MoldStar®22, combined with our wrought manufacturing process yields wear resistance, grain structure & lubricity along with superior performance characteristics not attainable with any other bronze material in the marketplace. In addition, MoldStar®22 work hardens in applications where there are high load forces combined with repeat motion. The "work hardening" effect typically provides added wear resistance and reduces the coefficient of friction with mating parts.

Please see back for Standard and non-Standard Product Sizes and Forms

The word MoldStar & the word Mold with a star symbol are Registered Trademarks of Performance Alloys and Services, Inc of Germantown, Wisconsin, United States.



MoldStar®22

PRODUCT SIZES

Round Bar Sizes

Diameter (inch)	Pounds per FT.	Nominal Diam.
3/4	1.61	.810-.813
1	3.12	1.02-1.03
1-1/4	4.56	1.29-1.3
1-1/2	6.74	1.57-1.58
1-3/4	8.48	1.8-1.81
2	12.62	2.09-2.1
2-1/2	17.06	2.55-2.56
3	25.4	3.14-3.15

We offer round bar cut to your length requirements or in full bar lengths. Full bar lengths vary by diameters. Performance Alloys sales consultants will provide standard bar length information by request. We never charge a cut charge. **Tube sizes** quoted by request. If you have a bar size requirement **under 1 inch**, we may be able to provide an economical solution, just call with the specific diameter and length requirements for the application.

Typical Applications for MoldStar 22

**Pushrod Tips
Lifter Bushings
Valve Guides**

Sleeves & Bushings of all types

Anywhere Lubrication may be Intermittent or Compromised

Anywhere Frictional Wear and Heat is an Issue

Anywhere there is high load force and extreme motion

MoldStar®22 works where other wear/bronze products fail

Due the Hardness and Ductility of MoldStar®22 we recommend a minimum wall thickness of at least .030" per side. We also recommend sawing and machining with carbide or better tooling. Use of High Speed cutting tools will work harden the MoldStar®22 and dull the cutting tools.

Check our Website for the LATEST PRODUCT/SIZE information

www.moldstar.com

We also offer Full In-House Precision Machine Shop Services

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