

Features

- Best wear resistance in Solid BN family
- Best mechanical strength in Solid BN family
- Good thermal resistance
- Low thermal expansion
- Good thermal shock resistance
- High electrical insulation
- Non wet to molten metal and glass
- Good corrosion resistance

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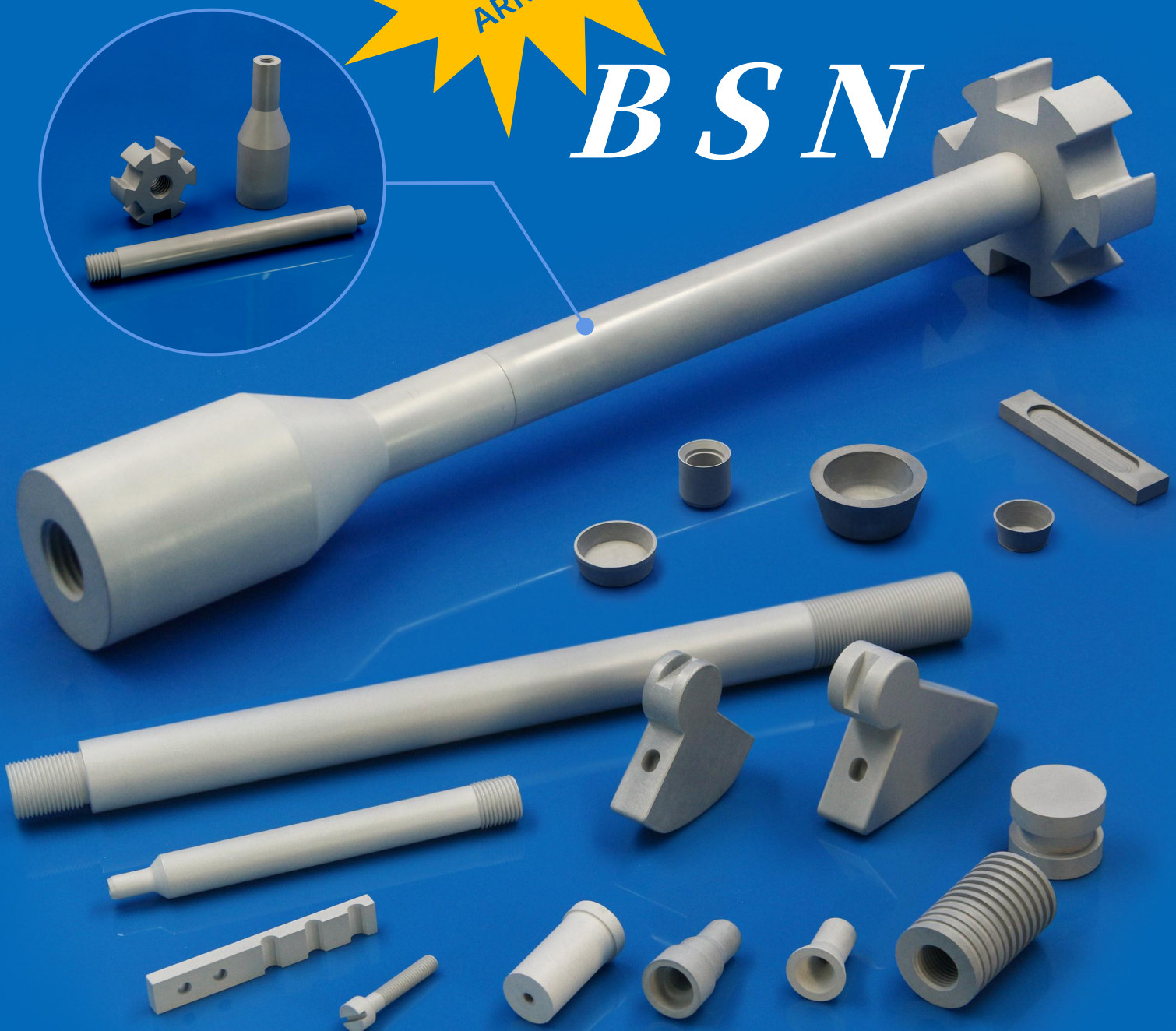
It's so exciting to present this news that a new material member named BSN joined BMATS® Solid Boron Nitride family.

BSN is a composite material, it's made from BN and Silicon Nitride.

It's with very good mechanical strength and wear resistance. BSN is often used as nozzle, crucible and stir rods due to its high performance. The working life is much longer compared with other composite BN materials.

**NEW
ARRIVAL**

BSN



Technical Data Sheet

Properties	Units	BSN
Main Composition	-	BN+Si ₃ N ₄
Color	-	Gray Black
Density	g/cm ³	2.2~2.3
Three-Point Bending Strength	MPa	/
Compressive Strength	MPa	400~500
Thermal Conductivity	W/(m·k)	20~22
Thermal Expansion Coefficient (20~1000°C)	10 ⁻⁶ /K	/
Max Using Temperature In Atmosphere In Inactive Gas In High Vacuum (Long Time)	(°C)	900 1750 1700
Room Temperature Electric Resistivity	Ω·cm	/

Remark: The value is just for review, different using conditions will have a little difference.

Applications



Stir Rod/Crucibles/Nozzles
for Molten Metal



Parts for Semiconductor
Equipment



Jigs for Molding
Glass



Nozzles for Powder
Metallurgy

