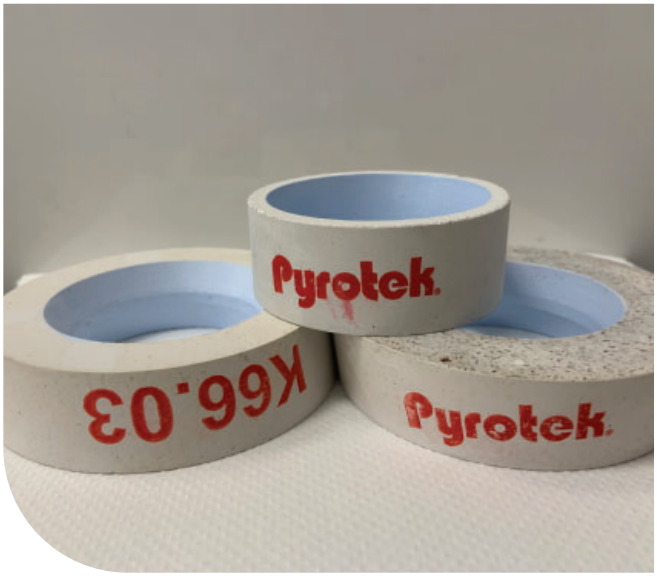
PYROTEK LPDC ADVANCED K66 SPRUE BUSHING



LOW-PRESSURE DIE CASTING

Pyrotek offers complete feeding system consumables, including sprue filters, sprue bushings, inserts, intermediate tubes, and stalk tubes to provide an air-tight path for clean molten metal to travel from the holding reservoir to the casting dies.

Advanced K66 sprue bushings are engineered to provide both strong performance and cost-efficiency. This refractory's natural non-wetting ability and the proper application of boron nitride (BN) coatings eliminate the need for maintenance during the full casting cycle.

BENEFITS

- Excellent abrasion resistance
- High thermal shock resistant
- Low off-gassing
- Nonwetting to aluminium and aluminium alloys

FEATURES

- Non-cement based refractory
- Custom shapes and designs
- Coated or non-coated

STORAGE AND HANDLING

Store in a dry place to avoid moisture absorption. Prior to use, the sprue bushing should be preheated to remove all moisture and reduce the likelihood of freeze casts.

PREHEAT

K66 sprue bushings must be preheated before use to remove residual moisture and/or to reduce cracking from thermal shock.

Bushings should be uniformly preheated to 200°C (392°F) in a furnace for a minimum of 30 minutes.

Do NOT use a direct flame as it will likely cause uneven thermal gradients within the material.

HEALTH AND SAFETY

Prior to use, refer to the product safety datasheet for proper handling and required personal protective equipment.

PHYSICAL PROPERTIES

Property	Value
Maximum Continuous Use Temperature - °C (°F)	850 (1562)
Density - kg/m^3 (lb/ft^3)	2000 (124)
Modulus of Rupture - MPa (psi) at 25°C	15 (2030)
CCS Compressive Strength - MPa	130
Coefficient of Thermal Expansion at 30°C-700°C - mm/mm°C (in/in°F)	1.6 x 10^{-6} (0.89 x 10^{-6})
Thermal Conductivity - W/m·K	0.75 at 600°C 0.86 at 700°C

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

AUG 25- EN-1867

Product Type: 105
Commodity Code: 02906