

Application Note - ZOTEK® N in Hot Metal Handling

Product - ZOTEK® N Nylon 6 foam

ZOTEK® N Key Benefits	
High Temperature up to 205C	Hydrocarbon Resistant
Durable	Non-friable
Insulative	Cushioning

Application Area

Operating efficiencies for metal parts manufacturing units.

ZOTEK N Key Benefits

Time and Space Saving

- Package parts immediate with no cooling time
- Eliminate double handling
- Eliminate cooling storage space requirement

Improved Packaging Performance

- Hydrocarbon & chemical resistant packaging
- Absorbent material
- Improved part protection

ZOTEK N Key Properties

Property	Test Method	Units	Typical Value
Density	ISO845	Kg m ³	52
Maximum Operating Temperature			+205
Compression Stress/Strain Characteristics			
25% Compression	ISO1798	kPa	190
50% Compression		kPa	280

Background

Heat is generated by many of the processes involved in the production and finishing of metal parts and components. Machining often involves the use of hydrocarbons as lubricating agent. The table below lists some of the processes with potential for ZOTEK® N productivity gains.

Metal Machining, Joining & Finishing Processes

Cutting Processes	Joining Processes	Associated Processes
Milling	Welding	Heat Treatment
Turning	Brazing	Plating
Threading	Soldering	Thermal Spraying
Turning	Riveting	Galvanising
Grinding		Sintering
Filing		Powder Coating