



SILICON NITRIDE COMPONENTS & FIXTURES for
ALUMINUM FOUNDRY & CASTING

Cost Performance Ratio of Common Materials Used in Molten Aluminum

		Cast Iron	Graphite	SiSiC	SiC-Si ₃ N ₄	Al ₂ TiO ₅	Si ₃ N ₄
Heater Protection Tube	Life Ratio	X	X	3-4	1	X	>10
	Price Ratio	X	X	3	1	X	>10
	Cost Performance	X	X	Medium	Low	X	High
Riser Tube	Life Ratio	1	X	X	2	4	>10
	Price Ratio	1	X	X	2	4-6	10-12
	Cost Performance	Low	X	X	Medium	Medium	High
Degassing Rotor	Life Ratio	X	1	X	X	X	>10
	Price Ratio	X	1	X	X	X	10-12
	Cost Performance	X	Medium	X	X	X	High
Stopper Pipe	Life Ratio	1	X	X	X	4-5	>10
	Price Ratio	1	X	X	X	6-7	>10
	Cost Performance	Low	X	X	X	Medium	High
Thermocouple Protection Tube	Life Ratio	X	X	2-4	1	X	>12
	Price Ratio	X	X	3	1	X	7-9
	Cost Performance	X	X	Medium	Low	X	High