

Raw Material Supplier Matrix

Raw Material	Supplier 1	Price 1 (\$/lb)	Risk 1	Supplier 2	Price 2 (\$/lb)	Risk 2	Supplier 3	Price 3 (\$/lb)	Risk 3
Superalloys									
Hastelloy X	Haynes International	\$45.20	Medium	Special Metals Corp	\$48.75	Low	VDM Metals	\$52.30	Medium
Inconel 625	Special Metals Corp	\$38.90	Low	Carpenter Technology	\$41.25	Medium	Sandvik	\$43.80	Low
Inconel 738LC	Cannon-Muskegon	\$65.40	High	PCC Forged Products	\$68.90	Medium	Allegheny Technologies	\$71.20	Medium
Inconel 718	Special Metals Corp	\$35.60	Low	Carpenter Technology	\$37.80	Medium	TimkenSteel	\$39.45	Medium
Inconel X-750	Special Metals Corp	\$42.15	Low	Haynes International	\$44.70	Medium	Sandvik	\$46.25	Medium
Inconel 600	Special Metals Corp	\$33.25	Low	VDM Metals	\$35.80	Medium	Carpenter Technology	\$37.10	Medium
Haynes 214	Haynes International	\$58.90	Medium	Special Metals Corp	\$61.45	Medium	VDM Metals	\$63.20	High
Stainless Steels									
316L Stainless Steel	Outokumpu	\$8.45	Low	Acerinox	\$8.90	Low	Aperam	\$9.25	Medium
17-4 PH Stainless Steel	Carpenter Technology	\$12.80	Medium	AK Steel	\$13.45	Medium	Sandvik	\$14.20	Low
A286 Stainless Steel	Carpenter Technology	\$28.90	Medium	Special Metals Corp	\$30.75	Low	Haynes International	\$32.40	Medium
Titanium Alloys									
Ti-6Al-4V Titanium	TIMET	\$42.80	Medium	RTI International	\$44.90	Medium	Allegheny Technologies	\$47.25	High
Tool Steels									
M50 Tool Steel	Carpenter Technology	\$18.60	Low	Timken Steel	\$19.85	Low	Bohler-Uddeholm	\$21.30	Medium
AISI 4340 Steel	TimkenSteel	\$4.25	Low	Nucor Corporation	\$4.60	Low	ArcelorMittal	\$4.95	Medium
Ceramics									
Reaction-bonded Silicon Carbide	Saint-Gobain	\$24.70	Medium	CoorsTek	\$26.40	Low	Kyocera	\$28.90	Medium
85% Al2O3, 15% SiO2	Vesuvius	\$3.85	Low	Morgan Advanced Materials	\$4.20	Medium	Resco Products	\$4.55	Medium
Aluminosilicate Ceramic Fiber	Morgan Thermal Ceramics	\$6.90	Low	Unifrax	\$7.35	Medium	Isolite Insulating	\$7.80	Medium

Specialty Materials									
BNi-2 Brazing Alloy	Wall Colmonoy	\$485.00	Medium	Lucas- Milhaupt	\$502.50	Low	Johnson Matthey	\$518.75	Medium
Aluminum Phosphate (per tube)	Aremco Products	\$35.60	Low	Cotronics Corp	\$38.20	Medium	Resbond Corp		