

Alfa Aesar	USA	website	https://www.alfa.com/en/
Thermo Fisher Scientific		metals and materials	https://www.alfa.com/en/catalog/category/metals-materials/
		pure elements	https://www.alfa.com/en/pure-elements/
		pure element single crystals	https://www.alfa.com/en/pure-element-single-crystals/
		single crystal substrates	https://www.alfa.com/en/single-crystal-substrates-1/
		alloys	https://www.alfa.com/en/alphabetical-listing-of-alloys/
		chemicals	https://www.alfa.com/en/catalog/category/chemicals/
		inorganics	https://www.alfa.com/en/inorganics/
Crystan	UK	optical materials	https://www.crystran.co.uk/optical-materials
CrysTec	Germany	semi-conductors, oxide wafers and substrates, crystal processing	http://www.crystec.de/products-e.html
Electron Microscopy Sciences	USA	MAC Reference Standards for X-ray Microanalysis	https://www.emsdiasum.com/microscopy/products/standards/xray.aspx
ESPI Metals	USA	website	https://espimetals.com/
		shop by element or alloy	https://espimetals.com/shop/
IAGEO	UK	Harvard EPMA materials	http://iageo.com/microanalytical-reference-materials/
Luciteria Science	USA	website	https://luciteria.com/
		elements for sale	https://luciteria.com/elements-for-sale
Micro-Analysis Consultants	UK	reference materials	https://micro-analysis.com/materials/index.asp
MTI Corporation	USA	website	https://www.mtixtl.com/
		crystal substrates	https://www.mtixtl.com/crystalssubstratesa-z.aspx
		metallic substrates	https://www.mtixtl.com/metallicsubstrates.aspx
		metallic single-crystal substrates	https://www.mtixtl.com/metallicsubstrate-singlecrystal.aspx
		metallic foils	https://www.mtixtl.com/metalfoils.aspx
		ceramic & glass substrates	https://www.mtixtl.com/ceramicsubstrates.aspx
		targets	https://www.mtixtl.com/evaporationandtargets.aspx

NIST reference materials	USA	Tables of Related Materials	https://shop.nist.gov/ccrz_CCPage?pageKey=SRMCategory&cclcl=en_US
NIST micronalysis reference materials	USA	SRM K-411 Glass microspheres SRM 480 W-Mo alloy SRM 481 Gold-silver wires SRM 482 Gold-copper wires SRM 2061 TiAl(NbW) Alloy SRM 2841, 2842 AlGaAs thin films	https://shop.nist.gov/ccrz_ProductDetails?sku=2066&cclcl=en_US https://shop.nist.gov/ccrz_ProductDetails?sku=480&cclcl=en_US https://shop.nist.gov/ccrz_ProductDetails?sku=481&cclcl=en_US https://shop.nist.gov/ccrz_ProductDetails?sku=482&cclcl=en_US https://shop.nist.gov/ccrz_ProductDetails?sku=2061&cclcl=en_US https://tsapps.nist.gov/srmext/tables/103.4.pdf
<u>NIST archived documentation</u>	USA	SRM 470: Mineral glasses SRM 1871: Pb-silicate glasses SRM 1874: Li-Al glasses SRM 1875: Al-Mg-phosphate glasses RM 8531: Glass fibers	https://tsapps.nist.gov/srmext/certificates/archives/470.pdf https://tsapps.nist.gov/srmext/certificates/archives/1871.pdf https://tsapps.nist.gov/srmext/certificates/archives/1874.pdf https://tsapps.nist.gov/srmext/certificates/archives/1875.pdf https://tsapps.nist.gov/srmext/certificates/archives/1875.pdf
P&H Developments	UK	website	https://www.pandhdevelopments.com/
Smithsonian	USA	Smithsonian Microbeam Standards	https://naturalhistory.si.edu/research/mineral-sciences/collections-overview/reference-materials/smithsonian-microbeam-standards
SPI supplies	USA	standards	https://www.2spi.com/standards/
SurfaceNet	Germany	website list of crystals catalog of standard substrates stocklist of former production stocklist of targets catalog of PLD ceramic targets	https://www.surfacenet.de/products.html https://www.surfacenet.de/crystals-281.html https://www.surfacenet.de/files/PDFs/catalog-standard-substrates.pdf https://www.surfacenet.de/files/PDFs/stocklist_substrates_2018-09-01.pdf https://www.surfacenet.de/files/PDFs/stocklist_targets_2018-09-01.pdf https://www.surfacenet.de/files/PDFs/list-PLD-ceramic-targets.pdf