

MATERIALS PELLETS

- Vacuum Deposition Grade Pellets C 03

Granules, pellets, pieces, tablets and shaped sources are available in virtually any known inorganic composition and range of purities.

PURITY

Purity is based on spectrographic values of trace metals found, i. e. 99.999% pure indicates that 0.001% (10 ppm) total of trace metals have been observed. 99.9% pure implies a total metallic impurity content of 0.1% (1,000 ppm). Gases, carbon and sulfur are not included in the analysis but can possibly be determined if needed.

CERTIFICATE OF ANALYSIS AND MSDS

All items are shipped with an analysis certificate. The analysis is specific to the actual batch of material being sent and not a "typical analysis", unless specifically stated.

All dangerous materials are shipped are attached by a Material Safety Data Sheet (MSDS).

CUSTOM MANUFACTURING

The pellets sizes and purity listed are those most commonly used and called as. However Neyco can offer nearly any range of dimensions desired, with purity that needed on request.



Vacuum Deposition Grade Pellets

AI

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ALUMINUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Aluminum	Al	3-6 mm 3 mm Ø x 3 mm / 6 mm Ø x 6 mm	99.99 to 99.999
Aluminum Antimonide	AlSb	3-6 mm	99.99
Aluminum Copper (98/2 wt%), (95/5 wt%), (99/1 wt%)	Al-Cu	3 mm Ø x 3 mm / 6 mm Ø x 6 mm	99.99 to 99.999
Aluminum Fluoride	AlF ₃	1-4 mm / 3-6 mm	99.5 to 99.99
Aluminum Iodide	AlI ₃	3-6 mm	99.999
Aluminum Magnesium (97.5/2.5 mol%)	Al-Mg	3-6 mm	99.99
Aluminum Nitride	AlN	1-4 mm / 3-6 mm	99.5 to 99.9
Aluminum Oxide	Al ₂ O ₃	1-3 mm 2-12 mm 10 mm Ø x 10 mm / 10-12 mm Ø x 4-5 mm	99.8 to 99.99
Aluminum Selenide	Al ₂ Se ₃	3-6 mm / 3-12 mm	99.5 to 99.999
Aluminum Silicon (99/1 wt%)	Al-Si	6 mm Ø x 6 mm	99.999
Aluminum Sulfide	Al ₂ S ₃	3-6 mm	98 to 99.9
Aluminum Telluride	Al ₂ Te ₃	3-6 mm	99.5
Aluminum Titanium Oxide (85/15 mol%)	Al ₂ O ₃ -TiO ₂	1-3 mm	99.99

*Purity based on metallic impurities - vacuum deposition grade.

Sb

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ANTIMONY Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Antimony	Sb	3-6 mm / 3-20 mm	99.5 to 99.9999
Antimony Arsenide	Sb ₃ As	3-6 mm / 5-50 mm	99.999
Antimony Iodide	SbI ₃	1-12 mm	99.999
Antimony Oxide	Sb ₂ O ₃	3-12 mm	99.9
Antimony Selenide	Sb ₂ Se ₃	3-6 mm / 3-12 mm	99 to 99.999
Antimony Selium	SbSe	3-12 mm	99.999
Antimony Sulfide	Sb ₂ S ₃	3-6 mm / 3-12 mm	99.99 to 99.999
Antimony Telluride	Sb ₂ Te ₃	3-6 mm / 3-12 mm	99 to 99.999

As

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ARSENIC Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Arsenic	As	3-12 mm / 4-20 mm	99 to 99.99999
Arsenic Oxide	As ₂ O ₅	3-12 mm	99.9 to 99.999
Arsenic Selenide	As ₂ Se ₃	1-6 mm	99 to 99.999
Arsenic Sulfide	As ₂ S ₃	3-12 mm / 1-6 mm	99.9 to 99.999
Arsenic Telluride	As ₂ Te ₃	3-12 mm	99 to 99.999

Ba

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BARIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Barium	Ba	0.2-3 mm	98
Barium	Ba	3-25 mm	99.7 to 99.9
Barium Aluminide	BaAl ₄	3-6 mm	99.5
Barium Antimonide	Ba ₃ Sb ₂	3-6 mm	99.5
Barium Arsenide	Ba ₃ As ₂	3-6 mm	99.5
Barium Fluoride	BaF ₂	3-6 mm	99.9 to 99.99
Barium Fluoride	BaF ₂	3-12 mm	99.995
Barium Hafnium Oxide	BaHfO ₃	3-6 mm	99.995
Barium Silicide	BaSi ₂	3-6 mm	98
Barium Titanate	BaTiO ₃	3-12 mm	99.95 to 99.99
Barium Zirconate	BaZrO ₃	1-4 mm	99.99

*Purity based on metallic impurities - vacuum deposition grade.

Bi

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BISMUTH Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Bismuth	Bi	1-12 mm / 2-5 mm	99.999 to 99.9999
Bismuth Antimonide	BiSb	3-6 mm	99.99
Bismuth Oxide	Bi ₂ O ₃	3-12 mm	99.9 to 99.99
Bismuth Selenide	Bi ₂ Se ₃	1-6 mm	99 to 99.999
Bismuth Sulfide	Bi ₂ S ₃	3-6 mm	99.999
Bismuth Telluride	Bi ₂ Te ₃	1-6 mm	99 to 99.999

B

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BORON Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Boron	B	3-8 mm	99.5
Boron Carbide	B ₄ C	2-3 mm / 3-6 mm	99.5
Boron Nitride	BN	3-6 mm	99.5
Boron Oxide	B ₂ O ₃	3-12 mm	99.9995

Cd

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CADMIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Cadmium	Cd	1-3 mm / 3-20 mm	99.999
Cadmium Antimonide	Cd ₃ Sb ₂	3-6 mm	99.999
Cadmium Arsenide	Cd ₃ As ₂	3-6 mm / 3-50 mm	99 to 99.999
Cadmium Fluoride	CdF ₂	3-6 mm	99.9
Cadmium Oxide	CdO	1-4 mm	99.99
Cadmium Phosphide	Cd ₃ P ₂	3-6 mm	99.999
Cadmium Selenide	CdSe	3-12 mm	99.99 to 99.999
Cadmium Stannate	Cd ₂ SnO ₄	3-6 mm	99.99
Cadmium Sulfide	CdS	3-6 mm / 3-12 mm	99.99 to 99.999
Cadmium Telluride	CdTe	3-6 mm / 3-12 mm	99 to 99.999
Cadmium Zinc Telluride	CdZnTe	3-6 mm	99.999
Cadmium Tungstate	CdWO ₄	1-4 mm	99.95

*Purity based on metallic impurities - vacuum deposition grade.

Ca

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CALCIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Calcium	Ca	0.2-2 mm / 3-12 mm	99.5 to 99.99
Calcium Fluoride	CaF ₂	1-4 mm	99.95 to 99.99
Calcium Hydride	CaH ₂	2 mm and smaller	98
Calcium Nitride	Ca ₃ N ₂	3-12 mm	99
Calcium Oxide	CaO	3-6 mm	99.95
Calcium Silicate	CaSiO ₃	3-12 mm	99
Calcium Silicide	CaSi	3 mm and smaller	99.5
Calcium Silicide	CaSi ₂	3 mm and smaller	99.5

Ce

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CERIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Cerium	Ce	6 mm Ø x 6 mm / 13-12 mm	99.9 to 99.95
Cerium Carbide	CeC ₂	3-6 mm	99.5
Cerium Fluoride	CeF ₃	3-6 mm / 3-12 mm	99.9 to 99.995
Cerium Oxide	CeO ₂	3-6 mm / 3-12 mm	99.99 to 99.95
Cerium Silicide	CeSi ₂	3-6 mm / 3-15 mm	99.9

Cr

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CHROMIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Chromium	Cr	1-3 mm / 3-6 mm 3 mm Ø x 3 mm / 6 mm Ø x 6 mm	99.2 to 99.99
Chromium Oxide	Cr ₂ O ₃	1-4 mm / 3-6 mm	99.7 to 99.9
Chromium Silicon Monoxide (70/30 wt%), (60/40 wt%), (50/50 wt%)	Cr-SiO	1-3 mm / 3-6 mm	99.9 to 99.95

*Purity based on metallic impurities - vacuum deposition grade.

Co
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COBALT Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Cobalt	Co	1-5 mm / 3-6 mm 6 mm Ø x 6 mm	99.95 to 99.98+
Cobalt Oxide	Co ₃ O ₄	1-4 mm	99.9
Cobalt Palladium	CoPd	1-4 mm	99.95
Cobalt Samarium (80/20 wt%)	Co-Sm	3-12 mm	99.95
Cobalt Selenide	CoSe	3-6 mm / 3-12 mm	99.5
Cobalt Telluride	CoTe	3-6 mm	99.5

*Purity based on metallic impurities - vacuum deposition grade.



Cu
29**COPPER Base**

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Copper	Cu	3 mm Ø x 3 mm / 6 mm Ø x 6 mm	99.99 to 99.999
Copper Aluminum Oxide	CuAlO ₂	1-4 mm / 3-6 mm	99.95
Copper Boride (97.46/2.54 wt%), (99.5/0.5 wt%)	Cu-B	3-6 mm	99.99
Copper Gallium	CuGa	3-12 mm	99.99
Copper Germanide	CuGe	3-6 mm	99.99
Copper Germanide Selenide	CuGeSe ₂	3-6 mm	99.99
Copper Indium Selenide	CuInSe ₂	3-6 mm	99.999
Copper Indium Sulfide	CuInS ₂	3-6 mm	99.999
Copper Indium Telluride	CuInTe ₂	3-6 mm	99.999
Copper Oxide	CuO / Cu ₂ O	3-12 mm	99.9
Copper Selenide	CuSe	3-6 mm	99.999
Copper Selenide	Cu ₂ Se	3-6 mm	99.5
Copper Silicide	Cu ₃ Si	1-6 mm	99.5 to 99.99
Copper Sulfate	CuSO _{4.5} ·H ₂ O	1-3 mm	99.95
Copper Telluride	Cu ₂ Te	3-6 mm	99.5 to 99.999
Copper Titanium	CuTi	3-12 mm	99.95
Copper Titanium Selenide	CuTiSe ₂	3-6 mm	99.999
Copper Titanium Telluride	CuTiTe ₂	3-6 mm	99.999
Copper Zirconium	CuZr	1-4 mm	99.95

Dy
66**DYSPROSIUM Base**

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Dysprosium	Dy	3-12 mm / 6-12 mm	99.9 to 99.95
Dysprosium Fluoride	DyF ₃	1-4 mm/3-6 mm/6-12 mm	99.9 to 99.995
Dysprosium Fluoride	DyF ₃	3-12 mm	99.9
Dysprosium Nickelide	DyNi ₂	3-6 mm	99.9
Dysprosium Oxide	Dy ₂ O ₃	3-6 mm/3-12 mm	99.9

*Purity based on metallic impurities - vacuum deposition grade.

Er

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ERBIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Erbium	Er	3-6 mm / 2-12 mm	99.9 to 99.95
Erbium Fluoride	ErF ₃	1-4 mm / 3-6 mm / 3-12 mm	99.9 to 99.995
Erbium Oxide	Er ₂ O ₃	3-12 mm	99.9 to 99.99
Erbium Silicide	Er ₃ Si ₅	3-6 mm	99.9

Eu

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EUROPIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Europium	Eu	3-12 mm	99.9
Europium Fluoride	EuF ₃	3-6 mm	99.9
Europium Oxide	Eu ₂ O ₃	3-6 mm / 3-12 mm	99.9 to 99.99
Europium Silicide	EuSi ₂	3-6 mm	99.5 to 99.9

Gd

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GADOLINIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Gadolinium	Gd	2-12 mm / 3-6 mm	99.9 to 99.95
Gadolinium Fluoride	GdF ₃	1-4 mm / 3-6 mm	99.9 to 99.995
Gadolinium Gallium Oxide (GGG)	Gd ₃ Ga ₅ O ₁₂	3-12 mm	99.9
Gadolinium Oxide	Gd ₂ O ₃	3-6 mm / 3-12 mm	99.9 to 99.995
Gadolinium Silicide	GdSi ₂	3-6 mm	99.9

*Purity based on metallic impurities - vacuum deposition grade.

Ga

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GALLIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Gallium	Ga	3-6 mm 30 mm Ø x 26 mm / 10 mm Ø x 24 mm / 9 mm Ø x 67 mm / 13 mm Ø x 63 mm	99.99 to 99.999999
Gallium Antimonide	GaSb	3-6 mm	99.99 to 99.999
Gallium Arsenide	GaAs	3-6 mm / 1-15 mm	99.999
Gallium Oxide	Ga ₂ O ₃	3-6 mm / 3-12 mm	99.995 to 99.999
Gallium Indium Zinc Oxide (1/1/1 mol%)	Ga ₂ O ₃ -In ₂ O ₃ -ZnO	3-6 mm	99.99
Gallium Phosphoride	GaP	3-6 mm	99.999
Gallium Selenide	Ga ₂ Se ₃	3-6 mm / 3-12 mm	99.99 to 99.999
Gallium Sulfide	GaS	3-6 mm	99.95 to 99.999
Gallium Telluride	GaTe	3-6 mm	99.999
Gallium Telluride	Ga ₂ Te ₃	3-6 mm	99.999

Ge

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GERMANIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Germanium	Ge	1-4 mm / 3-6 mm / 3-12 mm	99.999 to 99.9999
Germanium Antimonide	GeSb	3-6 mm	99.999
Germanium Antimony Telluride (GST)	GeSbTe	3-6 mm	99.99 to 99.999
Germanium Arsenide	GeAs	3-12 mm	99.99
Germanium Oxide	GeO ₂	3-12 mm	99.999
Germanium Selenide	GeSe / GeSe ₂	3-6 mm	99.99 to 99.999
Germanium Sulfide	GeS / GeS ₂	3-6 mm	99.999
Germanium Telluride	GeTe	3-6 mm	99.9999

Au

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GOLD Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Gold	Au	3 mm Ø x 3 mm / 3 mm Ø x 6 mm 3-6 mm	99.99 to 99.999
Gold Germanium (88/12 wt%), (95/5 wt%)	Au-Ge	3-6 mm	99.99 to 99.999
Gold Palladium (60/40 wt%)	Au-Pd	3-6 mm	99.99
Gold Tin (80/20 at%)	Au-Sn	1-4 mm / 3-6 mm	99.99 to 99.999
Gold Zinc (88/12 wt%) (95/5 wt%)	Au-Zn	1-4 mm / 3-6 mm	99.99 to 99.999

*Purity based on metallic impurities - vacuum deposition grade.

C

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GRAPHITE Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Graphite	C	1-4 mm / 3-15 mm	99.99 to 99.999

Hf

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HAFNIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Hafnium	Hf	3 mm Ø x 3mm / 6 mm Ø x 6 mm 3-12 mm	99.9 to 99.95
Hafnium Carbide	HfC	3-12 mm	99.9
Hafnium Fluoride	HfF ₄	1-4 mm / 3-6 mm	99.9 to 99.95
Hafnium Nitride	HfN	1-4 mm	99.5
Hafnium Oxide	HfO ₂	1-4 mm / 3-6 mm 10 mm Ø x 4 mm / 17 mm Ø x 5 mm	99.9 to 99.99
Hafnium Oxide Neodymium Oxide	HfO ₂ -Nd ₂ O ₃	1-4 mm	99.995
Hafnium Oxide Scandium Oxide	HfO ₂ -Sc ₂ O ₃	1-4 mm	99.995
Hafnium Oxide Titanium Dioxide	HfO ₂ -TiO ₂	10 mm Ø x 10 mm	99.95
Hafnium Oxide Yttrium Oxide	HfO ₂ -Y ₂ O ₃	1-4 mm	99.95

Ho

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HOLMIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Holmium	Ho	3-6 mm / 3-12 mm	99.9 to 99.95
Holmium Fluoride	HoF ₃	3-6 mm	99.9 to 99.995
Holmium Oxide	Ho ₂ O ₃	3-12 mm	99.9
Holmium Silicide	HoSi ₂	3-6 mm	99.9

*Purity based on metallic impurities - vacuum deposition grade.

In

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INDIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Indium	In	3 mm Ø x 3 mm / 6 mm Ø x 6 mm 1-3 mm	99.99 to 99.9999
Indium Antimonide	InSb	3-6 mm	99.99 to 99.999
Indium Arsenide	InAs	3-6 mm	99.99 to 99.999
Indium Bismuth	InBi	3-6 mm	99.999
Indium Fluoride	InF ₃	3-6 mm	99.995
Indium Gallium Zinc Oxide (IGZO)	InGaZnO	3-6 mm	99.99
Indium Oxide	In ₂ O ₃	3-6 mm / 3-12 mm	99.99 to 99.999
Indium Phosphoride	InP	3-6 mm	99.999
Indium Selenide	InSe / In ₂ Se ₃	3-6 mm	99.99 to 99.999
Indium Sulfide	In ₂ S ₃	3-6 mm	99.99
Indium Telluride	In ₂ Te ₃	3-6 mm	99.999
Indium Tin (90/10 wt%)	In-Sn	3-6 mm	99.99
Indium Tin Oxide, ITO (90/10 wt%), (91/9 wt%)	In ₂ O ₃ -SnO ₂	1-4 mm / 3-6 mm / 3-12 mm	99.99 to 99.998

Ir

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IRIDIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Iridium	Ir	1-4 mm / 3-6 mm	99.95 to 99.98
Iridium Oxide	Ir ₂ O ₃ / IrO ₂	1-4 mm	99.95

Fe

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IRON Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Iron	Fe	3 mm Ø x 3 mm / 6 mm Ø x 6 mm 1-3 mm / 3-6 mm	99.95 to 99.995
Iron Antimonide	FeSb	3-6 mm	99.5 to 99.9
Iron Arsenide	FeAs / FeAs ₂ / Fe ₂ As	3-6 mm	99.5 to 99.9
Iron Nickel Boride	FeNiB	3-6 mm	99.95
Iron Oxide	Fe ₂ O ₃ / Fe ₃ O ₄	1-4 mm / 3-12 mm	99.9 to 99.95
Iron Telluride	FeTe / FeTe ₂	3-6 mm	99.5

*Purity based on metallic impurities - vacuum deposition grade.

La

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LANTHANUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Lanthanum	La	1-4 mm / 3-12 mm	99.9 to 99.95
Lanthanum Aluminum Oxide	LaAlO ₃	1-4 mm / 3-6 mm	99.9
Lanthanum Boride	LaB ₆	3-6 mm / 6-12 mm	99.5
Lanthanum Carbide	LaC ₂	3-12 mm	99.9
Lanthanum Fluoride	LaF ₃	1-4 mm / 3-6 mm / 8-10 mm / 8 mm Ø x 5-7 mm	99.9 to 99.995
Lanthanum Nickel	LaNi ₅	3-12 mm	99.9
Lanthanum Oxide	La ₂ O ₃	3-12 mm	99.9
Lanthanum Silicide	LaSi ₂	3-6 mm	99.9
Lanthanum Titanium Oxide	LaTiO ₃	1-4 mm	99.9

Pb

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LEAD Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Lead	Pb	1-2 mm / 3 mm	99.9 to 99.9999
Lead Chloride	PbCl ₂	1-2 mm / 0.8-3.4 mm	99.999
Lead Fluoride	PbF ₂	1-3 mm / 3-6 mm	99.9 to 99.99
Lead Selenide	PbSe	3-6 mm	99 to 99.999
Lead Telluride	PbTe	1-3 mm / 3-6 mm	99.995 to 99.999

Li

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LITHIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Lithium	Li	2.5 mm	99
Lithium Fluoride	LiF	3-6 mm	99.9 to 99.995
Lithium Niobate	LiNbO ₃	3-12 mm	99.99
Lithium Silicide	LiSi ₂	3-6 mm	99.9

*Purity based on metallic impurities - vacuum deposition grade.

Lu

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LUTETIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Lutetium	Lu	3-12 mm	99.9 to 99.99
Lutetium Fluoride	LuF ₃	3-6 mm	99.9 to 99.99
Lutetium Oxide	Lu ₂ O ₃	3-6 mm / 3-12 mm	99.9 to 99.99
Lutetium Silicide	LuSi ₂	3-6 mm	99.9

Mg

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MAGNESIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Magnesium	Mg	4 mm Ø x 4 mm / 1-5 mm	99.9 to 99.99
Magnesium Antimonide	Mg ₃ Sb ₂	3-6 mm	99.5
Magnesium Aluminum Oxide	MgAl ₂ O ₄	3-12 mm	99.9 to 99.99
Magnesium Arsenide	Mg ₃ As ₂	3-6 mm	99.5
Magnesium Bismuth	Mg ₃ Bi ₂	3-6 mm / 1-4 mm	99.99
Magnesium Cerium Fluoride	MgF ₂ -CeF ₃	1-4 mm	99.995
Magnesium Fluoride	MgF ₂	0.7-1.5 mm / 3-6 mm	99.9 to 99.995
Magnesium Germanide	Mg ₂ Ge	3-6 mm	99.99
Magnesium Neodymium Fluoride	MgF ₂ -NdF ₃	3-6 mm	99.995
Magnesium Oxide	MgO	1-3 mm / 3-6 mm / 3-12 mm	99.5 to 99.999
Magnesium Plumbide	Mg ₂ Pb	3-6 mm	99.99
Magnesium Silicide	Mg ₂ Si	3-12 mm	99.5 to 99.99

Mn

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MANGANESE Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Manganese	Mn	1-4 mm / 3-6 mm / 1-12 mm	99.5 to 99.99
Manganese Aluminide	MnAl ₃	3-6 mm / < 10 mm	99.5
Manganese Antimonide	MnSb	3-6 mm	99.5
Manganese Antimonide	Mn ₂ Sb	3-6 mm	99.5 to 99.95
Manganese Carbide	Mn ₃ C-Mn ₅ C ₂	3-6 mm	99.5
Manganese Telluride	MnTe ₂	3-6 mm	99.9 to 99.99

*Purity based on metallic impurities - vacuum deposition grade.

Mo
42**MOLYBDENUM Base**

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Molybdenum	Mo	3 mm Ø x 3 mm / 6mm Ø x 6 mm	99.95
Molybdenum Oxide	MoO ₃	3-6 mm	99.99
Molybdenum Silice	Mo ₅ Si ₃	3-12 mm	99.5
Molybdenum Sulfide	MoS ₂	3-6 mm	99.9
Molybdenum Telluride	MoTe ₂	3-12 mm	99.9

Nd
60**NEODYMIUM Base**

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Neodymium	Nd	3-12 mm	99.9 to 99.99
Neodymium Fluoride	NdF ₃	3-6 mm / 3-12 mm	99.9 to 99.995
Neodymium Oxide	Nd ₂ O ₃	3-12 mm	99.9 to 99.95
Neodymium Silicide	NdSi ₂	3-6 mm	99.9

*Purity based on metallic impurities - vacuum deposition grade.



NICKEL Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Nickel	Ni	3 mm Ø x 3 mm / 6 mm Ø x 6 mm 6-12 mm	99.9 to 99.995
Nickel Antimonide	NiSb / Ni ₃ Sb	3-6 mm	99.5
Nickel Arsenide	NiAs / NiAs ₂	3-6 mm	99.5 to 99.995
Nickel Bismuthide	NiBi	3-6 mm	99.5
Nickel Chromium (80/20 wt%), (70/30 wt%), (60/40 wt%), (50/50 at %)	Ni-Cr / NiCr	3 mm Ø x 3 mm / 6 mm Ø x 6 mm	98 to 99.95
Nickel Chromium Iron (72/14/14 wt%)	Ni-Cr-Fe	6 mm Ø x 12 mm	99
Nickel Iron (80/20 wt%)	Ni-Fe	6.35 mm Ø x 6.35 mm	99.95
Nickel Oxide	NiO	3-6 mm / 3-12 mm	99.9 to 99.995
Nickel Palladium (50/50 mol%) (70/30 mol%)	Ni-Pd	3-6 mm	99.99
Nickel Selenide	NiSe	3-6 mm	99.9 to 99.95
Nickel Silicon (65/35 mol%)	Ni-Si	3-6 mm	99.99
Nickel Telluride	NiTe	3-6 mm	99.9
Nickel Zirconium	NiZr	1-4 mm / 3-6 mm	99.5 to 99.9

*Purity based on metallic impurities - vacuum deposition grade.



Nickel Chromium 99.95 Ø6 x 12 mm

Nb

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NIOBIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Niobium	Nb	3 mm Ø x 3 mm / 6 mm Ø x 6 mm	99.95
Niobium Carbide	NbC	3-12 mm	99.5
Niobium Fluoride	NbF ₅	1-4 mm	99.99
Niobium Nitride	NbN	3-12 mm	99.5
Niobium Oxide	Nb ₂ O ₅	1-3 mm / 3-12 mm	99.9 to 99.995

Pd

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PALLADIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Palladium	Pd	3-6 mm / 3 mm Ø x 6 mm	99.95

P

15

PHOSPHORUS Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Phosphorus	P	3-6 mm	99.999+

Pt

78

PLATINUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Platinum	Pt	3-6 mm / 3 mm Ø x 6 mm	99.95 to 99.99

*Purity based on metallic impurities - vacuum deposition grade.

K

19

POTASSIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Potassium	K	irregular	99.95
Potassium Chloride	KCl	5-10 mm	99.99
Potassium Fluoride	KF·2H ₂ O	3-6 mm	99.95 to 99.99
Potassium Iodide	KI	3-6 mm	99.98

Pr

59

PRASEODYMIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Praseodymium	Pr	3-6 mm / 3-12 mm	99.9 to 99.95
Praseodymium Fluoride	PrF ₃	3-6 mm	99.9
Praseodymium Oxide	Pr ₂ O ₃ / Pr ₆ O ₁₁	1-4 mm / 3-12 mm	99.9 to 99.95
Praseodymium Silicide	PrSi ₂	3-6 mm	99.9

Re

75

RHENIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Rhenium	Re	3-6 mm / 3-12 mm	99.95 to 99.99

Rh

45

RHODIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Rhodium	Rh	1-4 mm	99.95

*Purity based on metallic impurities - vacuum deposition grade.

Rb

37

RUBIDIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Rubidium	Rb	ingots	99.8 to 99.99

Ru

44

RUTHENIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Ruthenium	Ru	3-6 mm / 3-12 mm	99.95
Ruthenium Oxide	RuO ₂	3-6 mm / 3-12 mm	99.95 to 99.99

Sm

62

SAMARIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Samarium	Sm	1-3 mm / 3-12 mm	99.9 to 99.95
Samarium Fluoride	SmF ₃	3-6 mm	99.9
Samarium Oxide	Sm ₂ O ₃	3-12 mm	99.9 to 99.99

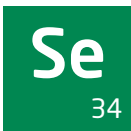
Sc

21

SCANDIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Scandium	Sc	3-12 mm / 2-50 mm	99.9 to 99.999
Scandium Fluoride	ScF ₃	3-12 mm	99.9
Scandium Oxide	Sc ₂ O ₃	1-4 mm / 3-6 mm	99.99 to 99.999

*Purity based on metallic impurities - vacuum deposition grade.



SELENIUM Base

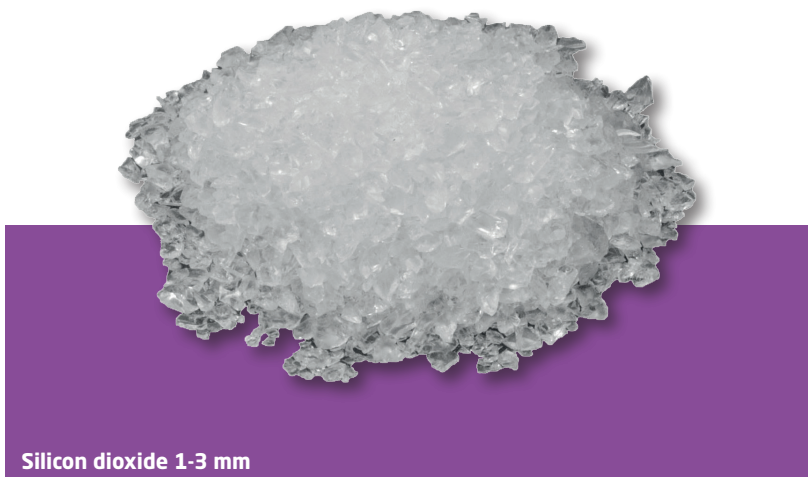
CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Selenium	Se	1-4 mm / 3 mm / 10-25 mm	99.99 to 99.999



SILICON Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Silicon	Si	1-4 mm / 3-6 mm / 3-20 mm	99.96 to 99.9999
Silicon Aluminum (92/8 mol%)	Si-Al	10 mm Ø x 10 mm	99.999
Silicon Carbide	SiC	0.2-1 mm	99.5
Silicon Nitride	Si ₃ N ₄	1-4 mm / 3-6 mm	99.5 to 99.9
Silicon Dioxide	SiO ₂	1-3 mm / 1-4 mm	99.95 to 99.995
Silicon Monoxide	SiO	0.2-0.5 mm / 3-12 mm / 6-12 mm	99.9 to 99.99
Silicon Sulfide	SiS ₂	25 mm and smaller	95

*Purity based on metallic impurities - vacuum deposition grade.



Ag
47**SILVER Base**

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Silver	Ag	2-6 mm / 3 mm Ø x 10 mm	99.99 to 99.999
Silver Calcium (80/20 mol%), (50/50 mol%)	Ag-Ca	3-6 mm	99
Silver Sulfide	Ag ₂ S	3-6 mm	99.999
Silver Aluminum (95/5 mol%)	Ag-Al	1-4 mm	99.99
Silver Chromium (95/5 mol%)	Ag-Cr	3-6 mm	99.99
Silver Copper (90/10 mol%)	Ag-Cu	3-6 mm	99.99
Silver Fluoride	AgF	3-6 mm	99.99
Silver Gallium Selenide	AgGaSe ₂	3-6 mm	99.999
Silver Gallium Telluride	AgGaTe ₂	3-6 mm	99.999
Silver Indium Sulfide	AgInS ₂	3-6 mm	99.999
Silver Indium Selenide	AgInSe ₂	3-6 mm	99.999
Silver Indium Telluride	AgInTe ₂	3-6 mm	99.999
Silver Titanium Selenide	AgTiSe ₂	3-6 mm	99.999
Silver Titanium Telluride	AgTiTe ₂	3-6 mm	99.999

Na
11**SODIUM Base**

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Sodium	Na	3-12 mm	99.95
Sodium Aluminum Fluoride	Na ₃ AlF ₆ / Na ₅ Al ₃ F ₁₄	1-4 mm / 3-6 mm / 8-10 mm	99.5 to 99.9
Sodium Fluoride	NaF	0.1-1 mm / 3-6 mm	99.9 to 99.95

Sr
38**STRONTIUM Base**

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Strontium	Sr	1-12 mm / 3-6 mm	99.8 to 99.95
Strontium Fluoride	SrF ₂	3-6 mm / 3-12 mm	99.9 to 99.9
Strontium Copper Oxide, SCO	SrCu ₂ O ₂	3-6 mm	99.9
Strontium Silicide	SrSi ₂	3-6 mm	99.5
Strontium Titanate	SrTiO ₃	3-6 mm	99.95

*Purity based on metallic impurities - vacuum deposition grade.

S

16

SULFUR Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Sulfur	S	3-6 mm	99.999

Ta

73

TANTALUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Tantalum	Ta	3-12 mm 3 mm Ø x 3 mm / 6 mm Ø x 6 mm	99.95
Tantalum Oxide	Ta ₂ O ₅	1-4 mm 8 mm Ø x 5 mm	99.95 to 99.995
Tantalum Carbide	TaC	3-12 mm	99.5
Tantalum Nitride	TaN	3 mm Ø x 6 mm	99.95

Te

52

TELLURIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Tellurium	Te	1-6 mm / 3-12 mm	99.99 to 99.9999

Tb

65

TERBIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Terbium	Tb	1-4 mm / 2-12 mm / 3-12 mm	99.9 to 99.95
Terbium Fluoride	TbF ₃	3-12 mm	99.9
Terbium Oxide	Tb ₄ O ₇	3-6 mm / 3-12 mm	99.9
Terbium Silicide	TbSi ₂	3-6 mm	99.9

*Purity based on metallic impurities - vacuum deposition grade.

Tm
69

THULIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Thulium	Tm	3-6 mm / 3-12 mm	99.9 to 99.95
Thulium Fluoride	TmF ₃	3-6 mm / 3-12 mm	99.9 to 99.99
Thulium Oxide	Tm ₂ O ₃	3-12 mm	99.9
Thulium Silicide	Tm ₃ Si ₅	3-6 mm	99.9

Sn
50

TIN Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Tin	Sn	1-3 mm 3 mm Ø x 3 mm	99.9 to 99.9999
Tin Antimonide	SnSb	3-6 mm	99.999
Tin Arsenide	SnAs	3-6 mm	99.999
Tin Oxide	SnO ₂	0.5-1 mm / 3-12 mm	99.9 to 99.995
Tin Oxide Antimony Oxide	SnO ₂ -Sb ₂ O ₃	3-6 mm	99.9
Tin Selenide	SnSe	3-12 mm	99.999
Tin Silver (96.5/3.5 mol%)	Sn-Ag	3-6 mm	99.99
Tin Sulfide	SnS / SnS ₂	3-12 mm	99.99
Tin Telluride	SnTe	1-6 mm / 3-6 mm / 3-12 mm	99.8 to 99.999

Ti
22

TITANIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Titanium	Ti	0.8-12.7 mm 3 mm Ø x 3 mm / 6 mm Ø x 6 mm	99.8 to 99.998
Titanium Aluminide	TiAl ₃	3-6 mm	99.5
Titanium Monoxide	TiO	1-4 mm / 3-6 mm / 3-12 mm 9 mm Ø x 6 mm	99.9
Titanium Oxide	TiO ₂	1-4 mm / 3-6 mm / 3-12 mm / 10-12 mm Ø x 4-5 mm / 18 mm Ø x 12 mm	99.99
Titanium Oxide	Ti ₂ O ₃	1-4 mm / 8-9 mm Ø x 6-7 mm	99.9 / 99.99
Titanium Oxide	Ti ₃ O ₅	1-4 mm / 0.5-2 mm / 0.3-1 mm / 8-9 mm Ø x 7-9 mm	99.99
Titanium Oxide	Ti ₅ O ₇	1-4 mm	99.99

*Purity based on metallic impurities - vacuum deposition grade.

W

74

TUNGSTEN Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Tungsten	W	1-6 mm / 3-6 mm / 3 mm Ø x 3 mm / 6 mm Ø x 6 mm / 12 mm Ø x 6 mm	99.95
Tungsten Carbide	WC	3-12 mm	99.5
Tungsten Oxide	WO ₃	1-4 mm / 3-12 mm	99.99
Tungsten Titanium (90/10 mol%)	W-Ti	3-6 mm / 3-12 mm	99.9 to 99.99

V

23

VANADIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Vanadium	V	1-6 mm / 3-12 mm 6 mm Ø x 6 mm	99.9 to 99.95
Vanadium Carbide	VC	3-12 mm	99.5
Vanadium Nitride	VN	3-12 mm	99.5
Vanadium Oxide	V ₂ O ₅	3-6 mm	99.5 to 99.95

Yb

70

YTTERBIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Ytterbium	Yb	1-4 mm / 3-6 mm / 3-12 mm	99.9 to 99.99
Ytterbium Fluoride	YbF ₃	3-12 mm / 8-10 mm	99.9 to 99.995
Ytterbium Oxide	Yb ₂ O ₃	3-12 mm	99.9 to 99.995
Ytterbium Silicide	Yb ₃ Si ₅	3-6 mm	99.9

Y

39

YTTRIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Yttrium	Y	3-12 mm / 6-12 mm	99.9 to 99.99
Yttrium Aluminum Oxide (YAG)	Y ₃ Al ₅ O ₁₂	3-6 mm / 3-12 mm	99.99
Yttrium Carbide	YC ₂	12 mm	99.5

*Purity based on metallic impurities - vacuum deposition grade.

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Yttrium Ditanate	$Y_2Ti_2O_7$	10 mm \varnothing x 10 mm	99.9
Yttrium Fluoride	YF_3	3-6 mm / 3-12 mm 10 mm \varnothing x 10 mm	99.9 to 99.998
Yttrium Oxide	Y_2O_3	1-4 mm / 10 mm \varnothing x 10 mm	99.9 to 99.99
Yttrium Silicide	Y_3Si_5	3-6 mm	99.9

Zn
30

ZINC Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Zinc	Zn	1-3 mm / 3-6 mm 5 mm \varnothing x 1 mm	99.999 to 99.9999
Zinc Antimonide (98/2 mol%)	Zn-Sb	3-6 mm	99.5 / 99.999
Zinc Arsenide	$ZnAs_2$ / Zn_3As_2	3-6 mm	99.99 to 99.9999
Zinc Oxide	ZnO	1-4 mm / 3-12 mm 12 mm \varnothing x 5 mm	99.9 to 99.995
Zinc Oxide Aluminum Oxide, (AZO) (98/2 mol%)	$ZnO-Al_2O_3$	1-4 mm / 3-6 mm	99.995
Zinc Palladium	ZnPd	3-6 mm	99.99
Zinc Phosphoride	Zn_3P_2	1-3 mm / 3-6 mm	99.9 to 99.999
Zinc Selenide	ZnSe	1-3mm / 3-6 mm / 3-12 mm	99.99 to 99.9999

*Purity based on metallic impurities - vacuum deposition grade.



Zinc \varnothing 5 x 1 mm

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Zinc Sulfide	ZnS	1-3mm / 3-6 mm / 3-12 mm	99.99 to 99.9999
Zinc Sulfide Silicon Dioxide (60/40 mol%)	ZnS-SiO ₂	3-6 mm	99.99
Zinc Manganese Telluride	ZnMnTe	3-6 mm	99.999
Zinc Telluride	ZnTe	3-12 mm	99.99 to 99.999

Zr 40 ZIRCONIUM Base

CHEMICAL	FORMULA	DESCRIPTION	PURITY*
Zirconium	Zr	3 mm Ø x 3 mm / 6 mm Ø x 6 mm 1-3 mm / 1-4 mm / 3-6 mm	99.5 to 99.995
Zirconium Aluminide	ZrAl ₃	3-6 mm	99.5
Zirconium Fluoride	ZrF ₄	1-4 mm	99.95
Zirconium Fluoride	ZrF ₄	3-6 mm	99.9
Zirconium Oxide Hafnium Oxide Tantalum Oxide	ZrO ₂ -HfO ₂ -Ta ₂ O ₅	1-4 mm	99.99
Zirconium Oxide (White)	ZrO ₂	3-12 mm 18 mm Ø x 12 mm	99.7 to 99.99
Zirconium Oxide (White)	ZrO ₂	22 mm Ø x 7 mm / 12 mm Ø x 7 mm / 13.2 mm Ø x 9.2 mm	99.9
Zirconium Oxide	ZrO ₂	22 mm Ø x 5 mm / 10 mm Ø x 10 mm	99.95
Zirconium Oxide	ZrO ₂	1-4 mm / 10 mm Ø x 6 mm	99.95 to 99.99
Zirconium Oxide Magnesium Oxide	ZrO ₂ -MgO	3-12 mm	99.7
Zirconium Oxide Tantalum Oxide (70/30 wt%)	ZrO ₂ -Ta ₂ O ₅	1-4 mm	99.99
Zirconium Oxide Titanium Oxide	ZrO ₂ -TiO ₂	1-4 mm / 10 mm Ø x 10 mm	99.9
Zirconium Oxide Yttrium Oxide, YSZ (92/8 mol%), (97/3 mol%)	ZrO ₂ -Y ₂ O ₃	1-4 mm	99.95

*Purity based on metallic impurities - vacuum deposition grade.





neyco

30 avenue de la Paix
92170 Vanves - France
Tel: +33(0)1 41 90 50 50
Fax: +33(0)1 41 90 50 51

www.neyco.fr



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