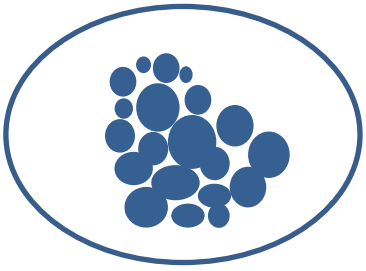
HIGH PURITY HALIDE MATERIALS

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High Purity Halide Materials

Our anhydrous metal halides have high thermal stability, extremely high redox properties, extremely high complexation performance and good solvent performance, etc. Their thermal stability is manifested by their high melting point, making them corrosion resistant in heated environments and highly resistant to heat. Redox properties allow them to have distinct chemical changes in oxidized and reduced states, and thus, they are widely used in electrochemical reactions.

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. Gases, Carbon and Sulfur are not included in the analysis but can possibly be determined if needed.

CERTIFICATE

Each batch of material is shipped with a certificate of analysis and represents the current batch only.

Material Safety Data Sheet (MSDS) will be attached if the materials are dangerous.

CUSTOM MANUFACTURING

Funcmater provide custom service if there is no dimensions or purity you want on the list, Don't hesitate to contact us.



Halide Materials List

FM offers a series of metal halide materials, it's unique photoelectric properties make it a typical emerging application material, and widely used in the fields of solar cells, light-emitting diodes and Nano-lasers.

Fluoride Powder

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Aluminum Fluoride	AlF_3	7784-18-1	99.5%-99.99 %
Aluminum Fluoride Trihydrate	$AlF_3•3H_2O$	15098-87-0	99.9%
Ammonium Fluoride	NH_4F	12125-01-8	96.0%-98.0%
Ammonium Hexafluorotitanate	$(NH_4)_2TiF_6$	16962-40-6	99.99%
Barium Fluoride	BaF_2	7787-32-8	99%-99.99%
Bismuth Fluoride	BiF_3	7787-61-3	99.0%-99.95%
Calcium Fluoride	CaF_2	7789-75-5	99.0%-99.99 %
Cesium Fluoride	CsF	13400-13-0	99.0%-99.99%
sChromium(II) Fluoride	CrF_2	10049-10-2	95.0%
Chromium(III) Fluoride	CrF_3	7788-97-8	99.98%
Chromium(III) Fluoride Hydrate	$CrF_3•xH_2O$	123333-98-2	99.0%-99.90%
Cobalt(II) Fluoride Tetrahydrate	$CoF_2•4H_2O$	13817-37-3	99.99%
Cobalt(II) Fluoride, anhydrous	CoF_2	10026-17-2	99.0%
Cobalt(II) Tetrafluoroborate Hydrate	$Co(BF_4)_2•xH_2O$	26490-63-1	96.0%
Cobalt(III) Fluoride	CoF_3	10026-18-3	99.0%
Copper(II) Fluoride	CuF_2	7789-19-7	99.5%
Cryolite	Na_3AlF_6	13775-53-6	99.5%-99.96%
Gallium Fluoride	GaF_3	7783-51-9	99.85%
Hafnium Fluoride	HfF_4	13709-52-9	99.95%
Indium Fluoride	InF_3	7783-52-0	99.95%-99.995%
Iron Fluoride	FeF_3	7783-50-8	97.0%
Iron(II) Fluoride	FeF_2	7789-28-8	98.0%
Iron(III) Fluoride Trihydrate	$FeF_3•3H_2O$	15469-38-2	99.0%-99.9%
Lead Fluoride	PbF_2	7783-46-2	99.9%-99.99%
Lead(IV) Fluoride	PbF_4	7783-59-7	99.0%

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Lithium Fluoride	LiF	7789-24-4	99.99%-99.995%
Lithium Hexafluoroantimonate	$LiSbF_6$	18424-17-4	97.0%
Lithium Hexafluorophosphate	$LiPF_6$	21324-40-3	98.0%
Lithium Hexafluorosilicate	Li_2SiF_6	17347-95-4	95.0%-99.0%
Lithium Tetrafluoroborate	$LiBF_4$	14283-07-9	98.0%
Magnesium - Cerium Fluoride	MgF_2 - CeF_3		99.995%
Magnesium - Neodymium Fluoride	MgF_2 - NdF_3		99.99%-99.995%
Magnesium Fluoride	MgF_2	7783-40-6	99.9%-99.995%
Magnesium Hexafluorosilicate Hexahydrate	$MgSiF_6•6H_2O$	18972-56-0	98.0%
Manganese Fluoride	MnF_2	7782-64-1	99.5%
Manganese Fluoride	$MnF_2•2H_2O$	7782-64-1	99.99%
Manganese Fluoride	MnF_3	7783-53-1	98.0%-99.5%
Molybdenum Fluoride	MoF_6	7783-77-9	99.99%
Nickel Fluoride	NiF_2	10028-18-9	97.0%-99.95%
Nickel(II) Fluoride Tetrahydrate	$NiF_2•4H_2O$	13940-83-5	98.0+%
Nickel(II) Tetrafluoroborate Hexahydrate	$Ni(BF_4)_2•6H_2O$	15684-36-3	99.0%-99.9%
Niobium Fluoride	NbF_5	7783-68-8	99.99%
Potassium Fluoride	KF	7789-23-3	99.95%
Potassium Fluoride Dihydrate	$KF•2H_2O$	13455-21-5	99.995%
Potassium Heptafluoroniobate(V)	K_2NbF_7	16924-03-1	99.5%
Potassium Heptafluorotantalate(V)	K_2TaF_7	16924-00-8	99.7-99.99%
Potassium Hexafluoronickelate(IV)	K_2NiF_6	17218-47-2	99.5%
Potassium Hexafluorophosphate	KPF_6	17084-13-8	95.0%-99.0%
Potassium Hexafluorosilicate	K_2SiF_6	16871-90-2	98.0%
Potassium Hexafluorozirconate	K_2ZrF_6	16923-95-8	99.0%
Potassium Hydrogen Fluoride	KHF_2	7789-29-9	99.0%
Rubidium Fluoride	RbF	13446-74-7	99.0%-99.98%
Rubidium Fluoride Hydrate	$RbF•xH_2O$	16422-67-6	99.0%
Sodium Aluminum Fluoride	$Na_5Al_3F_{14}$	12068-55-2	99.95%-99.995%
Sodium Fluoride	NaF	7681-49-4	99.99%
Sodium Fluorophosphate	Na_2PO_3F	10163-15-2	99.5%
Sodium Hexafluoroantimonate	$NaSbF_6$	16925-25-0	99.9%
Sodium Hexafluorophosphate	$NaPF_6$	21324-39-0	98.0%-99.0%
Sodium Tetrafluoroborate	$NaBF_4$	13755-29-8	95.0%
Sodium Yttrium Fluoride	$NaYF_4$	14118-34-4	99.9%
Strontium Fluoride	SrF_2	7783-48-4	99.99%
Tantalum(V) Fluoride	TaF_5	7783-71-3	99.9%
Tin Fluoride	SbF_3	7783-56-4	99.0%-99.999 %
Tin Fluoride	SnF_2	7783-47-3	97.5%-99.9%

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Tin(IV) Fluoride	SnF_4	7783-62-2	99.0%
Titanium(IV) Fluoride	TiF_4	7783-63-3	98.0%
Vanadium Fluoride	VF_4	10049-16-8	99.9%
Vanadium(III) Fluoride	VF_3	10049-12-4	98.0%
Vanadium(V) Trifluoride Oxide	VOF_3	13709-31-4	99.9%
Zinc Fluoride	ZnF_2	7783-49-5	99.99%
Zinc Fluoride Tetrahydrate	$ZnF_2 \cdot 4H_2O$	13986-18-0	98.0%
Zirconium Fluoride	ZrF_4	7783-64-4	99.9%



Chloride Powder

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Aluminum Chloride	$AlCl_3$	7446-70-0	99.95-99.999%
Aluminum Chloride Hexahydrate	$AlCl_3•6H_2O$	7784-13-6	99.995%
Barium Chloride	$BaCl_2$	10361-37-2	99.9 %-99.998 %
Barium Chloride Dihydrate	$BaCl_2•2H_2O$	10326-27-9	99.0+%
Bismuth Chloride	BiCl3	7787-60-2	99.99%-99.999%
Calcium Chloride	$CaCl_2$	10043-52-4	93.0%-99.9%
Calcium Chloride Dihydrate	$CaCl_2•2H_2O$	10035-04-8	99-99.99%
Calcium Chloride Hydrate	$CaCl_2•xH_2O$ (x≈4-6)	22691-02-7	99.997%
Cadmium Chloride	$CdCl_2$	10108-64-2	99.9%-99.999%
Cadmium Chloride Hemipentahydrate	$CdCl_2•2.5H_2O$	7790-78-5	99.99%
Cadmium Chloride Hydrate	$CdCl_2•xH_2O$	654054-66-7	99.998%
Cobalt(II) Chloride Hexahydrate	$CoCl_2•6H_2O$	10060-12-5	99.998%
Cobalt(II) Chloride	$CoCl_2$	7646-79-9	99.7%-99.998%
Chromium(II) Chloride, Anhydrous	$CrCl_2$	10049-05-5	98.5%-99.99 %
Chromium Chloride	$CrCl_3$	10025-73-7	98.0%-99.9%
Chromium(III) Chloride Hexahydrate	$CrCl_3•6H_2O$	10060-12-5	99.5%-99.998%
Cesium Chloride	CsCl	7647-17-8	99.99 %-99.999 %
Copper Chloride	CuCl	7758-89-6	99.5%-99.999%
Copper Chloride	$CuCl_2$	7447-39-4	99.99%-99.999%
Copper(II) Chloride Hydrate	$CuCl_2•2H_2O$	10125-13-0	99.0+%
Ammonium Copper(II) Chloride Dihydrate	$CuCl_2•2NH_4Cl.2H_2O$	10060-13-6	99.0%-99.99%
Copper(II) Chloride Hydrate	$CuCl_2•xH_2O$ (x≈2)	10125-13-0	99.999%
Iron Chloride	$FeCl_2$	7758-94-3	99.5%-99.99%
Iron Chloride	$FeCl_2.\ 2H_2O$	7758-94-3	99.5%
Iron(II) Chloride Tetrahydrate	$FeCl_2•4H_2O$	13478-10-9	98.0%
Iron(II) Chloride Hydrate	$FeCl_2•xH_2O$	23838-02-0	99.0%
Iron(III) Chloride Anhydrous	$FeCl_3$	7705-08-0	98.0%-99.0%
Iron(III) Chloride Hexahydrate	$FeCl_3•6H_2O$	10025-77-1	97.0%-99.9%
Gallium(II) Chloride	Ga_2Cl_4	24597-12-4	99.999%
Gallium Chloride	$GaCl_2$	24597-12-4	99.998%
Gallium Chloride	$GaCl_3$	13450-90-3	99.999%
Hafnium Chloride	$HfCl_4$	13499-05-3	99.9%
Hafnium Dichloride Oxide Octahydrate	$HfOCl_2•8H_2O$	14456-34-9	98.0%-99.998%
Indium Chloride	$InCl_2$	13465-11-7	99.99%
Indium Chloride	$InCl_3$	10025-82-8	99.99%-99.999%
Indium(III) Chloride Hydrate	$InCl_3•xH_2O$	143983-91-9	99.99%

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Potassium Chloride	KCl	7447-40-7	98.0%-99.999%
Lithium Phosphorus Sulfur Chloride	Li_6PS_5Cl		99.9%
Lithium Phosphorus Tellurium Chloride	Li_6PTe_5Cl		99.9%
Lithium Chloride	LiCl	7447-41-8	99.0%-99.999%
Lithium Chloride-Potassium Chloride	LiCl.KCl	65567-96-6	98.0+%
Lithium Chloride Monohydrate	$LiCl•H_2O$	16712-20-2	99.95%
Lithium Germanium Phosphous Sulifide Chloride	LiGePSCl		99.99%
Magnesium Chloride	$MgCl_2$	7786-30-3	99.9%-99.99%
Magnesium Chloride Hexahydrate	$MgCl_2•6H_2O$	7791-18-6	99.99%
Manganese Chloride	$MnCl_2$	7773-01-05	99.0%-99.9 %
Manganese(II) Chloride Tetrahydrate	$MnCl_2•4H_2O$	13446-34-9	99.999%
Molybdenum Chloride	$MoCl_5$	10241-05-1	99.99%
Molybdenum Chloride	$MoCl_6$	13706-19-9	99.99%
Sodium Tetrachloroaluminate	$NaAlCl_4$	7784-16-9	99.99%
Sodium Chloride	NaCl	7647-14-5	99.0%-99.998%
Niobium Chloride	$NbCl_5$	10026-12-7	99.0%-99.999 %
Ammonium Chloride	NH_4Cl	12125-02-9	98.0%-99.999%
Ammonium Hexachlorostannate(IV)	$(NH_4)_2SnCl_6$	16960-53-5	98.0%
Nickel(II) Chloride Anhydrous	$NiCl_2$	7718-54-9	99.99%
Nickel(II) Chloride Hydrate	$NiCl_2•xH_2O$	69098-15-3	99.995%
Lead Chloride	$PbCl_2$	7758-95-4	99.9%-99.999%
Rubidium Chloride	RbCl	2151958	99.0%-99.995%
Rhenium Trichloride	$ReCl_3$	13569-63-6	99.9%
Rhenium (V) Chloride	$ReCl_5$	13596-35-5	99.9%
Antimony(III) Chloride	$SbCl_3$	10025-91-9	99.9%-99.999%
Selenium(I) Chloride	Se_2Cl_2	10025-68-0	99.9%
Selenium(IV) Chloride	$SeCl_4$	10026-03-6	99.5%
Tin Chloride	$SnCl_2$	7772-99-8	99.999%
Tin(II) Chloride Dihydrate	$SnCl_2•2H_2O$	10025-69-1	98.0%
Tin Chloride	$SnCl_4$	7646-78-8	99.999%
Tin(IV) Chloride Hydrate	$SnCl_4•xH_2O$	7646-78-8	98.0%
Strontium Chloride Anhydrous	$SrCl_2$	10476-85-4	99.5%-99.995%
Strontium Chloride Hexahydrate Colorless	$SrCl_2•6H_2O$	10025-70-4	99.0%-99.99%
Tantalum Chloride	$TaCl_5$	7721-01-9	99.9%
Tellurium Chloride	$TeCl_2$	10025-71-5	99.9%-99.999 %
Tellurium(IV) Chloride	$TeCl_4$	10026-07-0	99.9%-99.999%
Vanadium Chloride	VCl_3	7718-98-1	99.9%

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Tungsten Chloride	WCl_5	13470-14-9	99.9%
Tungsten Chloride	WCl_6	13283-01-7	99.9%
Zinc Chloride	$ZnCl_2$	7646-85-7	97.0%-99.999%
Zinc Chloride Hydrate	$ZnCl_2 \bullet xH_2O$	29604-34-0	99.999%
Zirconium Chloride	$ZrCl_4$	10026-11-6	99.9%



Bromide Powder

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Aluminum Bromide	$AlBr_3$	7727-15-3	99.999%
Barium Bromide	$BaBr_2$	10553-31-8	99.998%
Barium Bromide Dihydrate	$BaBr_2 \cdot 2H_2O$	7791-28-8	99.3%-99.999%
Bismuth Bromide	$BiBr_3$	7787-58-8	99. 999%
Magnesium Bromide Hexahydrate	$MgBr_2 \cdot 6H_2O$	13446-53-2	98.0+%
Nickel(II) Bromide, Anhydrous	$NiBr_2$	13462-88-9	99.0%
Strontium Bromide, Anhydrous	$SrBr_2$	10476-81-0	99.0%
Indium(III) Bromide, Anhydrous	$InBr_3$	13465-09-3	99.99%
Calcium Bromide	$CaBr_2$	7789-41-5	99.5%-99.978%
Calcium Bromide Hydrate	$CaBr_2 \cdot xH_2O$	71626-99-8	99.5%-99.999%
Cadmium Bromide	$CdBr_2$	7789-42-6	98.0%-99.999 %
Cadmium Bromide Hydrate	$CdBr_2 . xH_2O$	7789-42-6	99.999%
Cadmium Bromide Hydrate	$CdBr_2 \cdot xH_2O$	681435-25-6	99.999%
Cobalt Bromide	CoBr2	7789-43-7	99.99%
Cobalt(II) Bromide Hydrate	$CoBr2 \cdot xH_2O$	85017-77-2	99.99%
Cesium Bromide	CsBr	7787-69-1	99.9%-99.999 %
Copper Bromide	CuBr	7787-70-4	99.0%-99.998 %
Copper(II) Bromide	$CuBr_2$	7789-45-9	98.0%-99.0%
Iron Bromide	$FeBr_2$	7789-46-0	99.98%-99.995 %
Iron(III) Bromide, Anhydrous	$FeBr_3$	10031-26-2	98.0+%
Gallium Bromide	$GaBr_3$	13450-88-9	99.0%-99.998 %
Hafnium Bromide	$HfBr_4$	13777-23-5	99.0 %-99.99 %
Indium Bromide	InBr	14280-53-6	99.99%-99.999%
Potassium Bromide	KBr	7758-02-03	99.0%-99.98%
Potassium Hexabromotellurate(IV)	K_2TeBr_6	16986-18-8	99.99%
Lithium Phosphorus Sulfur Bromide	Li_6PS_5Br		99.9%
Lithium Phosphorus Tellurium Bromide	Li_6PTe_5Br		99.9%
Lithium Bromide Anhydrous	LiBr	7550-35-8	99.0%-99.998%
Lithium Bromide Hydrate	$LiBr \cdot xH_2O$	85017-82-9	99.995%
Magnesium Bromide	$MgBr_2$	7789-48-2	99.99%
Manganese(II) Bromide, Anhydrous	$MnBr_2$	13446-03-2	99.0%
Manganese(II) Bromide Hydrate	$MnBr_2 \cdot xH_2O$	10031-20-6	98.0%-99.9%
Sodium Tetrabromopalladate(II)	Na_2PdBr_4	50495-13-1	99.95%
Sodium Bromide	NaBr	7647-15-6	97.0%-99.999%
Ammonium Bromide	NH_4Br	12124-97-9	99.999%
Nickel(II) Bromide Trihydrate	$NiBr_2 \cdot 3H_2O$	7789-49-3	98.0%

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Lead Bromide	$PbBr_2$	10031-22-8	99.998%
Rubidium Bromide	RbBr	7789-39-1	99.9%
Antimony Bromide	$SbBr_3$	7789-61-9	99.995%-99.999%
Selenium(IV) Bromide	$SeBr_4$	7789-65-3	99.0%
Tin Bromide	$SnBr_2$	10031-24-0	99.99%
Tin(IV) Bromide	$SnBr_4$	7789-67-5	99.0%
Strontium Bromide Hexahydrate	$SrBr_2 \bullet 6H_2O$	7789-53-9	95.0%-99.0%
Tantalum Bromide	$TaBr_5$	13451-11-1	99.9%-99.99 %
Tellurium Bromide	$TeBr_4$	10031-27-3	99.999%
Titanium Bromide	$TiBr_4$	7789-68-6	99.99%
Vanadium Bromide	VBr_3	13470-26-3	99.5%
Zinc Bromide	$ZnBr_2$	7699-45-8	99.999%
Zinc Bromide Hydrate	$ZnBr_2 \bullet xH_2O$	299465-28-4	99.999%
Zinc Bromide Hydrate	$ZnBr_2 \bullet xH_2O$	299465-28-4	99.9%-99.999%
Zirconium Bromide	$ZrBr_4$	13777-25-8	99.9%



Iodide Powder

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Aluminum Iodide	AlI_3	7784-23-8	99.999%
Ammonium Iodide	NH_4I	12027-06-4	99.0%-99.995%
Antimony Iodide	SbI_3	7790-44-5	99.9%-99.999%
Barium Iodide	BaI_2	13718-50-8	99.995 %-99.999 %
Barium Iodide	TaI_5	14693-81-3	99.99%
Barium Iodide	PbI_2	10101-63-0	99.99%-99.999%
Barium Iodide	BiI_3	7787-64-6	99.99%-99.999%
Barium Iodide Hydrate	$BaI_2•xH_2O$	13718-50-8	95.0%
Cadmium Iodide	CdI_2	7790-80-9	99.9%-99.999 %
Calcium Barium Iodide	$CaBaI_3$		99.9%
Calcium Iodide	CaI_2	10102-68-8	99.5%-99.999 %
Calcium Iodide Hydrate	$CaI_2•xH_2O$	71626-98-7	99.9%
Calcium Iodide Hydrate	$CaI_2•xH_2O$ (x≈6)	71626-98-7	99.997%
Cesium Barium Iodide	$CsBa_2I_5$		99.9%
Cesium Calcium Iodide	$CsCa_2I_5$		99.9%
Cesium Europium Iodide	$CsEuI_3$		99.99%
Cesium Iodide	CsI	7789-17-5	99.9%-99.999 %
Cesium Samarium Iodide	$CsSmI_3$		99.99%
Cesium Strontium Iodide	$CsSr_2I_5$		99.9%
Cesium Tin Iodide	$CsSnI_3$		99.999%
Cesium Triiodide	CsI_3	20202-54-4	98.0%
Cesium Ytterbium Iodide	$CsYbI_3$		99.99%
Cobalt Iodide	CoI_2	15238-00-3	99.5%-99.999%
Copper Iodide	CuI	7681-65-4	99.9%-99.999%
Gallium Iodide	GaI_3	13450-91-4	99.99%-99.999%
Germanium(II) Iodide	GeI_2	13573-08-5	99.99%-99.999%
Germanium(IV) Iodide	GeI_4	13450-95-8	99.999 %-99.9999 %
Hafnium Iodide	HfI_4	13777-23-6	99.5%- 99.9 %
Indium Iodide	InI	13465-10-6	99.99%-99.999%
Indium(III) Iodide	InI_3	13510-35-5	99.99%-99.9999 %
Iron Iodide	FeI_2	7783-86-0	99.99%
Lithium Iodide	LiI	10377-51-2	99.9%-99.999%
Lithium Iodide Hydrate	$LiI•xH_2O$	85017-80-7	99.995%
Lithium Iodide Hydrate	$LiI•xH_2O$	85017-80-7	99.9%
Lithium Phosphorus Sulfur Iodide	Li_6PS_5I		99.9%
Magnesium Iodide	MgI_2	10377-58-9	99.99 %-99.999 %

CHEMICAL NAME	FORMULA	CAS No.	PURITY
Manganese Iodide	MnI_2	7790-33-2	99.99%
Nickel Iodide	NiI_2	13462-90-3	99.5%-99.998%
Niobium Iodide	NbI_5	13779-92-5	99.99%
Potassium Iodide	KI	7681-11-0	99.5 %-99.998%
Rubidium Iodide	RbI	7790-29-6	99.8%-99.99%
Silicon Iodide	SiI_4	13465-84-4	99%-99.999%
Sodium Iodide	NaI	7681-82-5	99.98 %-99.999 %
Strontium Iodide	SrI_2	10476-86-5	99.0%-99.99%
Tellurium Iodide	TeI_4	7790-48-9	99.9%-99.99%
Tin(II) Iodide	SnI_2	10294-70-9	99.99%-99.999%
Tin(IV) Iodide	SnI_4	7790-47-8	99.9%-99.999 %
Titanium Iodide	TiI_4	7720-83-4	99.9%-99.999%
Zinc Iodide	ZnI_2	10139-47-6	98.0%-99.995%
Zirconium Iodide	ZrI_4	13986-26-0	99.9%

