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Ganci New Materials

● A PROFESSIONAL SUPPLIER OF RARE EARTH PERMANENT MAGNET PRODUCTS AND SYSTEM SOLUTIONS ●

Rare Earth Oxides

Rare Earth Oxide Properties

Rare Earth Oxide Properties

Description		La_2O_3	CeO_2	Pr_6O_{11}	Nd_2O_3	$(Pr\text{-}Nd)_2O_3$	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	Y_2O_3	$(Y+Eu)_2O_3$
TREO		⩾96.0	⩾97.8	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0	⩾99.0
Rare earth impurity	La_2O_3	⩾99.99	⩽0.01	⩽0.05	⩽0.05	⩽0.05	⩽0.001	⩽0.0005	⩽0.01	⩽0.0002	⩽0.01	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	CeO_2	⩽0.001	⩾99.95	⩽0.05	⩽0.05	⩽0.05	⩽0.001	⩽0.0005	⩽0.01	⩽0.0002	⩽0.01	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Pr_6O_{11}	⩽0.002	⩽0.01	⩾99.9	⩽0.3	18.0~27.0	⩽0.001	⩽0.0005	⩽0.01	⩽0.0002	⩽0.01	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Nd_2O_3	⩽0.002	⩽0.01	⩽0.3	⩾99.9	82.0~73.0	⩽0.03	⩽0.0005	⩽0.01	⩽0.0002	⩽0.01	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Sm_2O_3	⩽0.002	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩾99.95	⩽0.0005	⩽0.01	⩽0.0002	⩽0.01	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Eu_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.005	⩾99.999	⩽0.10	⩽0.0002	⩽0.01	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	6.6
	Gd_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩾99.5	⩽0.0010	⩽0.01	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Tb_4O_7	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.02	⩾99.99	⩽0.05	⩽0.01	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Dy_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.01	⩽0.001	⩾99.5	⩽0.2	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Ho_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.01	⩽0.0002	⩽0.10	⩾99.5	⩽0.01	⩽0.0005	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Er_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.01	⩽0.0002	⩽0.05	⩽0.01	⩾99.5	⩽0.001	⩽0.0005	⩽0.0002	⩽0.0002	⩽0.0002
	Tm_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.01	⩽0.0002	⩽0.05	⩽0.01	⩽0.05	⩾99.99	⩽0.005	⩽0.0002	⩽0.0002	⩽0.0002
	Yb_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.02	⩽0.002	⩽0.10	⩽0.05	⩽0.10	⩽0.003	⩾99.99	⩽0.0002	⩽0.0002	⩽0.0002
	Lu_2O_3	⩽0.001	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.0020	⩽0.0020	⩽0.05	⩽0.05	⩽0.20	⩽0.0025	⩽0.0025	⩾99.999	⩽0.0002	⩽0.0002
	Y_2O_3	⩽0.001	⩽0.01	⩽0.01	⩽0.01	⩽0.01	⩽0.001	⩽0.0005	⩽0.02	⩽0.0002	⩽0.01	⩽0.05	⩽0.05	⩽0.0005	⩽0.0005	⩽0.0002	⩾99.999	93.4
Non-rare earth impurity	Fe_2O_3	⩽0.003	⩽0.002	⩽0.01	⩽0.01	<0.01	⩽0.002	⩽0.0003	⩽0.005	⩽0.0003	⩽0.005	⩽0.005	⩽0.005	⩽0.0003	⩽0.0003	⩽0.0003	<0.0003	<0.0002
	CaO	⩽0.05	⩽0.05	⩽0.02	⩽0.05	⩽0.05	⩽0.015	⩽0.0010		⩽0.002	⩽0.02	⩽0.02	⩽0.02	⩽0.003	⩽0.0020	⩽0.0030	⩽0.001	⩽0.001
	CuO						⩽0.001	<0.0005		⩽0.002				⩽0.0005	⩽0.0005	⩽0.0005	⩽0.0005	⩽0.0005
	NiO						⩽0.001	<0.0005		⩽0.001				⩽0.0005	⩽0.0005	⩽0.0005	⩽0.0001	⩽0.001
	PbO						⩽0.001	<0.0005		⩽0.001				⩽0.0005	⩽0.0005	⩽0.0005	⩽0.001	⩽0.001
	SiO_2			⩽0.05	⩽0.05	⩽0.05	⩽0.003	<0.0005	⩽0.01	⩽0.003	⩽0.03	⩽0.05	⩽0.05	⩽0.0025	⩽0.0025	⩽0.0020	⩽0.002	⩽0.002
	Cl	⩽0.05	⩽0.05	⩽0.05	⩽0.05	⩽0.05	⩽0.05	⩽0.01	⩽0.05	⩽0.010	⩽0.02	⩽0.05	⩽0.05	⩽0.01	⩽0.01	⩽0.01	⩽0.01	⩽0.01
	Al_2O_3			⩽0.01	⩽0.01	⩽0.01			⩽0.05									

Rare Earth Oxides


Dy_2O_3


Tm_2O_3


Er_2O_3


Gd_2O_3


Ho_2O_3


La_2O_3


Lu_2O_3


Nd_2O_3


Pr_6O_{11}


Sm_2O_3


CeO_2


Tb_4O_7


Y_2O_3


Yb_2O_3


Eu_2O_3

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