

Pr₆O₁₁

TREO≥98~99 % Pr₆O₁₁/TREO≥90~99.9%

Trade-mark	Chemical Composition										1000°C1h No More Than
	REO No less Than	Pr ₆ O ₁₁ / REO No less than	impurity content, No More Than								
			rare earth impurity/REO					non-rare earth impurity			
			La ₂ O ₃	Ce-O ₂	Nd ₂ O ₃	Sm ₂ O ₃	Y ₂ O ₃	Fe ₂ O ₃	SiO ₂	CaO	
Pr ₆ O ₁₁ -2	99	99.9	0.1					0.020	0.010	0.050	1
Pr ₆ O ₁₁ -3	99	99.5	0.5					0.020	0.010	0.050	1
Pr ₆ O ₁₁ -4	99	99	1					0.020	0.010	0.050	1
Pr ₆ O ₁₁ -7	99	96	4					0.020	-	-	1
Pr ₆ O ₁₁ -9	98	90	10					0.020	-	-	2

Nd₂O₃

TREO≥99% Nd₂O₃/TREO≥95~99.99%

trademark	Chemical Composition						1000°C 1h no more than
	REO no less than	Nd ₂ O ₃ /REO no less than	impurity content, No More Than				
			rare earth impurity/REO	non-rare earth impurity			
				Fe ₂ O ₃	SiO ₂	CaO	
Nd ₂ O ₃ -04	99	99.99	0.01	0.0005	0.005	0.01	1
Nd ₂ O ₃ -1	99	99.95	0.05	0.001	0.01	0.03	1
Nd ₂ O ₃ -2	99	99.9	0.1	0.005	0.01	0.03	1
Nd ₂ O ₃ -3	99	99.5	0.5	0.05	0.03	0.02	1
Nd ₂ O ₃ -4	99	99	1	0.01	0.05	0.05	2
Nd ₂ O ₃ -5	98	98	2	0.01	0.05	0.05	3
Nd ₂ O ₃ -8	97	95	5	0.01	0.05	0.05	3

Sm₂O₃

TREO≥99 % Sm₂O₃/TREO≥96~99.99%

Trademark	Chemical Composition		
	REO No less than	Sm ₂ O ₃ /REO No less than	impurity content, No More Than
			rare earth impurity/REO
			(Pr ₆ O ₁₁ +Nd ₂ O ₃ +Eu ₂ O ₃ +Gd ₂ O ₃ +Y ₂ O ₃)/REO
Sm ₂ O ₃ -2	99	99.9	0.1
Sm ₂ O ₃ -3	99	99.5	0.5
Sm ₂ O ₃ -4	99	99	1
Sm ₂ O ₃ -7	99	96	4

Trademark	Chemical Composition %				1000°C, 1h % No More Than
	impurity content, No More Than				
	non-rare earth impurity				
	Fe ₂ O ₃	SiO ₂	CaO	Cl ⁻	
Sm ₂ O ₃ -2	0.001	0.005	0.05	0.005	1
Sm ₂ O ₃ -3	0.005	0.01	0.05	0.01	1
Sm ₂ O ₃ -4	0.01	0.01	0.1	0.02	1
Sm ₂ O ₃ -7	0.05	0.05	0.1	0.03	1

Eu₂O₃

TREO≥99% Eu₂O₃/TREO≥99.99%

Trademark	Chemical Composition %							
	REO No less than	Eu ₂ O ₃ /REO no less than	impurity content, No More Than					
			rare earth impurity/REO					
			CeO ₂	Pr ₆ O ₁₁	Nd ₂ O ₃	Sm ₂ O ₃	Gd ₂ O ₃	Dy ₂ O ₃
Eu ₂ O ₃ -04	99	99.99	0.0005	0.001	0.004	0.003	0.003	0.002
Eu ₂ O ₃ -1	99	99.95	含量 0.05					

Trademark	Chemical Composition %						1000°C 1h % No more than	Central particle size d50 µm
	impurity content, No More Than							
	non-rare earth impurity							
	Fe ₂ O ₃	CaO	NiO	PbO ₂	CuO	ZnO		
Eu ₂ O ₃ -04	0.0007	0.001	0.001	0.001	0.0006	0.005	1	2.5~6
Eu ₂ O ₃ -1	0.001	0.002	0.001	0.001	0.0006	0.007	1	—

Gd₂O₃

TREO≥99% Gd₂O₃/TREO≥99.5~99.99%

Trade-mark	Chemical Composition %													灼 减 No mo re tha n
	REO No- less than	Gd ₂ O/ REO Noless tha	impurity content, No More Than											
			rare earth impurity/REO					non-rare earth impurity						
			Sm ₂ O ₃	Eu ₂ O ₃	Tb ₄ O ₇	Dy ₂ O ₇	Y ₂ O ₃	Fe ₂ O ₃	SiO ₂	CaO	NiO	PbO ₂	CuO	
Gd ₂ O ₃ - 04A	99	99.99	0.00 3	0.00 2	0.00 3	0.00 1	0.00 1	0.000 5	0.00 2	0.00 2	0.00 1	0.00 1	0.00 05	1
Gd ₂ O ₃ - 04B	99	99.99	0.00 3	0.00 1	0.00 3	0.00 1	0.00 2	0.001	0.00 5	0.00 3	0.00 1	0.00 1	0.00 05	1
Gd ₂ O ₃ - 1	99	99.95	0.05					0.001	0.00 5	0.00 5	0.00 1	0.00 1	0.00 1	1
Gd ₂ O ₃ - 2	99	99.9	0.1					0.002	0.00 6	0.00 6	—	—	—	1
Gd ₂ O ₃ - 3	98	99.5	0.5					0.005	0.01	0.01	—	—	—	1

La-REO

TREO≥70~80% La₂O₃/TREO≥70 %

Trademark	Chemical Composition %			
	No More Than			No less than
	REO	La ₂ O ₃ /REO	CeO ₂ /REO	ThO ₂
La-REO-80	85.00	80.00	2.00	0.05
La-REO-70	85.00	70.00	2.00	0.05

Trademark	Chemical Composition %				
	Rare earth ele- ments	non-rare earth impurity, No more than			
	La ₂ O ₃ /REO	Fe ₂ O ₃	SiO ₂	Al ₂ O ₃	CaO+MgO
La-REO	≥85	0.05	0.5	0.5	0.5

(LaCe) _x O _{y-2}	≥85	0.05	0.5	0.5	0.5
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Ce-REO

TREO≥95% CeO₂/TREO≥75%

Trademark	Chemical Composition %			
	REO	CeO ₂	Nd ₂ O ₃	Fe ₂ O ₃
			No More than	
Ce-REO-1	70~75	60~65	5	0.5
Ce-REO-2	70~75	60~65	—	—