CERAMIC FIBER BLANKET TDS

1	Item	Unit	Test Result	Test Result	Test Result	Test Result	Test Result	Test Result
2	Grade	/	Common	Standard	High purity	High alumina	Zirconia-alumina	Zirconia
3	Specification temp	(℃)	1050	1260	1260	1360	1400	1450
4	Working temperature	(℃)	800	1050	1100	1150	1200	1350
5	Color	/	White	Pure White	Pure White	Pure White	Pure White	Pure White
6	Density	(kg/m^3)	128/96/80/64±15	128/96/80/64±15	128/96/80±15	160/128±15	160/128/96±15	160/128/96±15
7	Permanent shrinkage Rate of liner (24h, density 128kg/m^3)	(%)	-4	-3	-3	-3	-3	-3
			(1000℃)	(1100℃)	(1000℃)	(1250℃)	(1250℃)	(1350℃)
8	Thermal conductivity of each heat surface(density 128kg/m^3)	(W/m.k)	0.09(400℃)	0.09(400℃)	0.09(400℃)	0.12(600℃)	0.132(600℃)	0.16(800℃)
			0.16（800℃)	0.16（800℃)	0.16（800℃) 0.20(1000℃)	0.20（1000℃)	0.22（1000℃)	0.22（1000℃)
9	Compression strength (density 128kg/m^3)	(Mpa)	≧0.04	≧0.04	≧0.04	≧0.06	≧0.06	≧0.06
10	Al_2O_3	(%)	≧40	≧42	≧47	≧45	≧45	≧40
11	$Al_2O_3+SiO_2$	(%)	96	97	99	99	-	-
12	$Al_2O_3+SiO_2+ZrO_2$	(%)	-	-	-	-	99	99
13	ZrO_2	(%)	-	-	-	-	5--7	15--17
14	Fe_2O_3	(%)	< 1.2	< 1.0	< 0.2	< 0.2	< 0.2	< 0.2
15	Na_2O+K_2O	(%)	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2
16	Thickness	(mm)	12.5/20/25/38/50					
17	Width	(mm)	610/1220					
18	Length	(mm)	3600/7200/14400					

CERAMIC FIBER MODULE TDS

1	Item	Unit	Test Result	Test Result	Test Result	Test Result	Test Result	Test Result
2	Grade	/	1000 Fold / stack/ veneer block	1260 Fold / stack/ veneer block	1260 Fold / stack/ veneer block	1360 Fold / stack/ veneer block	1400 Fold / stack/ veneer block	1450 Fold / stack/ veneer block
3	Specification temp	(℃)	1050	1260	1260	1360	1400	1450
4	Working temperature	(℃)	800	1050	1100	1150	1200	1350
5	Color	/	White	Pure White	Pure White	Pure White	Pure White	Pure White
6	Density	(kg/m^3)	220/200/128/96±15	220/200/128/96±15	220/200/128/96±15	220/200/128/96±15	220/200/128/96±15	220/200/128/96±15
7	Permanent shrinkage Rate of liner (24h, density 128kg/m^3)	(%)	-4	-3	-3	-3	-3	-3
			(1000℃)	(1100℃)	(1000℃)	(1250℃)	(1250℃)	(1350℃)
8	Thermal conductivity of each heat surface(density 128kg/m^3)	(W/m.k)	0.09(400℃)	0.09(400℃)	0.09(400℃)	0.12(600℃)	0.132(600℃)	0.16(800℃)
			0.16 (800℃)	0.16 (800℃)	0.16 (800℃) 0.20(1000℃)	0.16 (800℃) 0.20(1000℃)	0.22 (1000℃)	0.22 (1000℃)
9	Compression strength (density 128kg/m^3)	(Mpa)	≧0.04	≧0.04	≧0.04	≧0.06	≧0.06	≧0.06
10	Al_2O_3	(%)	≧40	≧42	≧47	≧45	≧45	≧40
11	$Al_2O_3+SiO_2$	(%)	96	97	99	99	-	-
12	$Al_2O_3+SiO_2+ZrO_2$	(%)	-	-	-	-	99	99
13	ZrO_2	(%)	-	-	-	-	5--7	15--17
14	Fe_2O_3	(%)	<1.2	<1.0	<0.2	<0.2	<0.2	<0.2
15	Na_2O+K_2O	(%)	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2
16	Thickness	(mm)	150/200/250/300/600					
17	Width	(mm)	300					
18	Length	(mm)	300/600					

CERAMIC FIBER BOARD TDS

1	Item	Unit	Test Result	Test Result	Test Result	Test Result	Test Result	Test Result
2	Grade	/	Common	Standard	High purity	High alumina	Zirconia-alumina	Zirconia
3	Specification temp	(℃)	1150	1260	1260	1360	1360	1450
4	Working temperature	(℃)	1000	1050	1100	1150	1200	1350
5	Color	/	White	Pure White	Pure White	Pure White	Pure White	Pure White
6	Density	(kg/m^3)	260/280/300±15	260/280/300±15	260/280/300±15	260/280/300±15	260/280/300±15	260/280/300±15
7	Permanent shrinkage Rate of liner (24h, density 128kg/m^3)	(%)	-4	-3	-3	-3	-3	-3
			(1000℃)	(1100℃)	(1000℃)	(1250℃)	(1250℃)	(1350℃)
8	Thermal conductivity of each heat surface(density 280kg/m^3)	(W/m.k)	0.09(400℃)	0.09(400℃)	0.09(400℃)	0.12(600℃)	0.132(600℃)	0.16(800℃)
			0.13 (800℃)	0.16 (800℃)	0.13 (800℃) 0.18(1000℃)	0.18 (1000℃)	0.22 (1000℃)	0.22 (1000℃)
9	Compression strength (density 280kg/m^3)	(Mpa)	≥0.5	≥0.5	≥0.5	≥0.5	≥0.5	≥0.06
10	Al_2O_3	(%)	≥40	≥42	≥47	≥45	≥45	≥40
11	$Al_2O_3+SiO_2$	(%)	96	97	99	99	-	-
12	$Al_2O_3+SiO_2+ZrO_2$	(%)	-	-	-	-	99	99
13	ZrO_2	(%)	-	-	-	-	5--7	15--17
14	Fe_2O_3	(%)	< 1.2	< 1.0	< 0.2	< 0.2	< 0.2	< 0.2
15	Na_2O+K_2O	(%)	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2
16	Thickness	(mm)	25/50					
17	Width	(mm)	500/600					
18	Length	(mm)	900/1200					

CERAMIC FIBER BULK TDS

1	Item	Unit	Test Result	Test Result	Test Result	Test Result	Test Result
2	Grade	/	Common	Standard	High purity	High alumina	Zirconia-alumina
3	Specification temp	(℃)	1050	1260	1260	1360	1360
4	Working temperature	(℃)	800	1050	1100	1150	1200
5	Color	/	White	Pure White	Pure White	Pure White	Pure White
6	Fiber diameter	(um	2--3	2--3	2--3	2--3	2--3
			3--4.5	3--4.5	3--4.5	3--4.0	3--4.0
7	Al_2O_3	(%)	≥40	≥42	≥47	≥45	≥45
8	$Al_2O_3+SiO_2$	(%)	96	97	99	99	-
9	$Al_2O_3+SiO_2+ZrO_2$	(%)	-	-	-	-	99
10	ZrO_2	(%)	-	-	-	-	5--7
11	Fe_2O_3	(%)	< 1.2	< 1.0	< 0.2	< 0.2	< 0.2
12	Na_2O+K_2O	(%)	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2
13	Pacakge	(/)	20kg/bag				

CERAMIC FIBER PAPER TDS

1	Item	Unit	Test Result	Test Result	Test Result
2	Density	(kg/m^3)	180/200±15	180/200±15	180/200±15
3	Specification temp	(℃)	1260	1260	1260
4	Organic content	(%)	6--8	6--8	6--8
5	Color	/	White	Pure White	Pure White
6	Thermal conductivity of each heat surface(density 128kg/m^3)	(W/m.k)	0.075-0.085(200℃) 0.115-0.121 (400℃) 0.165-0.175(600℃)		
7	Al_2O_3	(%)	45-46	≧42	≧47
8	$Al_2O_3+SiO_2$	(%)	96	97	99
9	Thickness	(mm)	2/3/4/5/6/10		
10	Width	(mm)	610/1220		
11	Length	(mm)	6000/10000/12000/15000/20000/30000		

CERAMIC FIBER CLOTH TDS

1	Item	Unit	Test Result	Test Result
2	Color	/	White	White
3	Specification temp	(℃)	1260(Stainless steel fiber)	1000(Glass fiber)
4	Using Temp	(℃)	1000	650
5	Fiber diameter	(um)	44200	44200
6	Shot content	(%)	≤8.5	≤8.5
7	Thermal conductivity of average temperature	(W/m.k)	0.13-0.19(538℃,8pcf)	0.13-0.19(538℃,8pcf)
		(%)	0.075-0.085(1232℃*24h)	0.075-0.085(1232℃*24h)
8	$A_{l2}O_3$	(%)	≧45-46	≧45-46
9	SiO_2	(%)	51-52	51-52
10	Fe_2O_3	(%)	< 0.43	< 0.43
11	Na_2O+K_2O	(%)	0.7-1.2	0.7-1.2
12	Thickness	(mm)	2/3/4/5	
13	Width	(mm)	1000	
14	Length	(mm)	20000	

CERAMIC FIBER YARN TDS

1	Item	Unit	Test Result	Test Result
2	Color	/	White	White
3	Specification Temp	(℃)	1000	1260
4	Using temp	(℃)	650	1000
5	Basic materials	/	CF fiber+Glass fiber	CF fiber+Stainless steel fiber
6	Fiber diameter	(mm)	2,3	2,3
7	Thread weight/roll	(kg)	2±02	2±02
	Moisture content	(%)	≤1	≤1
8	LOI	(%)	≤15	≤15
9	Tex	(g/km)	525	525
10	Number of twist	(Strand)	2	2

Tex (g/km)	Fiber Diameter
525	2.0mm
620	2.5mm
1000	3.0mm
2000	3.0mm
2250	3.5mm