HT-THERMIC

Ultra-high Temperature Thermocouple 超高温 熱電對

HT-THERMIC®

(山里 : YAMARI)

, 2,000

가

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가 , ,

HT-THERMIC®

: mm

HT.1

ORDER CODE	Type			/		
HT.1	W5	BE300(P SO)	M6.4	800	TCF642	

HT.2

ORDER CODE	Type			/		
HT.2	B	P SO	PT08.0	510		

HT.3

ORDER CODE	Type			/		
HT.3	W5	P SO	M4.8	500	3,000	

HT.4

ORDER CODE	Type			/		
HT.4	W5	P SO	N1.6	500	1,000	

							Ø mm	Type
	+	-						
W5	W 5% +Re	W 26% + Re	HOSKINS	400 2,300	-	± 1%	0.5	HT1 · HT2 · HT3
							0.25	HT4
W3	W 3% +Re	W 25% + Re	HOSKINS	400 2,300	-	± 1%	0.5	HT1 · HT2 · HT3
							0.25	HT4
B	Pt 30% +Rh	Pt 6% +Rh	JIS C 1602	600 1,700	0.5	± 4 ± 0.5%	0.5	HT2
			ANSI MC 96.1	600 1,700		± 0.5%		

PSO	(Al ₂ O ₃)	1,800
BE	(BeO)	2,000
MG	(燒結) (MgO)	1,600

					Type
MO	Molybdenum	2,100	1,000mm	6.4	HT1 · HT3
				4.8	HT1 · HT3
				1.6	HT4
TI	Tantalum	2,100	1,000mm	4.8	HT1 · HT3
				1.6	HT4
NB	Niobium	2,000	1,000mm	4.8	HT1 · HT3
				1.6	HT4
PTO	(Al ₂ O ₃)	1,800	1,000mm	8.0	HT2
BE	(BeO)	2,200	500mm	6.4	HT2
ZR	(無孔) Nonporous Zr	2,100	600mm	6.4	HT2

Compression Fittings

Material=304 SS =HT1				Material=304 SS =HT1				Material=316 SS =HT2			
Type	D	S	L	Type	D	S	L	Type	D	S	L
TCF 481	4.8	PT1/8	33	LCF 481	4.8	PT1/8	33	MCF 123	12	PT3/8	52
TCF 482	4.8	PT1/4	35	LCF 482	4.8	PT1/4	35	MCF 124	12	PT1/2	60
TCF 642	6.4	PT1/4	35	LCF 642	6.4	PT1/4	35	MCF 126	12	PT3/4	60

D	Transition	Transition
	600 W5 260 W3	(爐) SS 120

MI

<table border="1" style="width: 100%;"> <tr style="background-color: #800080; color: white;"> <th>W/Re</th> <th></th> <th></th> </tr> <tr> <td>W5</td> <td>0 870</td> <td>±0.11mV</td> </tr> <tr> <td>W3</td> <td>0 260</td> <td>±0.11mV</td> </tr> </table>	W/Re			W5	0 870	±0.11mV	W3	0 260	±0.11mV	<p>W/Re</p> <p>HT1, HT2, HT3 Type MI-Cable 가 .</p> <p>: ±0.111nV(W5, W3)</p> <p>: 200</p>
W/Re										
W5	0 870	±0.11mV								
W3	0 260	±0.11mV								

HT-THERMIC®

(爐)

가

W5가 B, W3, Pt5%Mo/Pt0.1% Mo, Mo-Nb, Ni18%Mo/Ni 가 가

W5		() , 1650 , Re() 가 .
W3		W5 1,100 2,300 가 W5
B		(Palladium)

			(熔融點)	(μV)			(底抗率) (μ / cm)	
W5	W5%Re	0 ~ 2,300	3,350	8.8 / at 2,316	-	21,700kg/cm ²	18.0/0 ~ 100	± 1%
	W26%Re		3,120		$3.9 \times 10^{-6} / 20$ 1,983	21,300kg/cm ²	30.9/0 ~ 100	
W3	W5%Re	0 ~ 2,300	3,360	9.9 / at 2,316	-	21,700kg/cm ²	9.5/0 ~ 100	± 1%
	W5%Re		3,120		$3.9 \times 10^{-6} / 20$ 1,983	21,300kg/cm ²	30.9/0 ~ 100	
B	W5%Re	600 ~ 1,700	1,927	11.7 / 1,600	$8.9 \times 10^{-6} / 20$ 1,800	4,900kg/cm ²	19.0/0 ~ 100	ANSI MC96.1 JIS C1602 ± 0.5%
	W5%Re		1,826		$9.1 \times 10^{-6} / 20$ 1,800	2,800kg/cm ²	17.5/0 ~ 100

1,200

, MgO Al2O3 가

		(純度)		(熔融點)	(Cal/)	Cal cm ⁻¹ · s ⁻²
PSO		>99.7%Al2O3	1,800 / 1K .cm	2,050 ± 20	0.26/ 20~1,000	0.014/1,000
BE		>99.5%BeO	2,000 / 1K .cm	2,550 ± 20	0.50/ 20~1,000	0.046/1,000
MG	(燒結)	>99.5%MgO	2,200 / 1K .cm	2,800 ± 20	0.25/ 20~1,000	0.016/1,000

가

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			(X10 ⁻⁶)	Ca · cm ⁻¹ · s ⁻¹		
MO	(Mo)	2,622 ± 10	7.2/2,000	0.328	2,100	V · R · N
TA	(Ta)	2,850 ± 10	6.6/2,000	0.130	2,100	V · N(Ar,He)
NB	(Nb)	2,415 ± 15	9.0/2,000	0.132	2,000	V · N(Ar,He)
PTO	(Al2O3)	2,050 ± 20	8.6/1,000	0.014	1,800	R · N · O
BE	(BeO)	2,550 ± 20	8.9/1,000	0.046	2,200	V · R · N · O
ZR	(ZrO2)	2,300 ± 20	10.0/1,000	0.010	2,100	N · O

	Mo	Ta	Ni
가 가	400 500 : 800 :	500 가 가.	200 가 .
(0.5g H ₂ O/m ³)	.	400 800 : 가.	200 : 1,900 : 가,
(20g H ₂ O/m ³)	1,400 가 가.	450 가,	200 : 1,900 : 가,
NH ₃	.	400 가	200 가.
NH ₃	"	"	200 400 NH3가 가,
(,)	"	.	1,900 가 가 .
: 10 ⁻³ torr 10 ⁻⁴ torr	1,700 1,800	가 가 가 2,200	"Getter Effect"
가) (		가 , ()	900 Na Li 가 .

	Mo	Tu	Ta
Graphite	1,200 : 가.	1,400 : 가.	1,000 : 가.
Al ₂ O ₃	1,900 :	1,900 :	1,900 :
BeO	1,900 :	2,000 :	1,600 :
MgO	1,800 :	2,000 : MgO가	1,800 :
ZrO ₂	1,900 : Mo가	1,600 :	1,600 :
ThO ₂	1,900 :	2,200 :	1,900 :
Silimanite	1,700 :	1,700 :	1,600 :
Chamotte Beick	1,200 :	1,200 :	1,200 :
Magnesite Brick	1,600 :	1,600 :	1,500 :

: * 10⁻⁴torr(1/760) .
100 200