

ヒーター用保護管 [INCOLOY 800 TUBE]

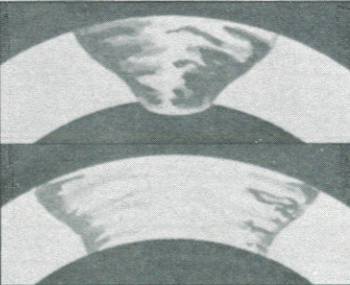
●重量表

(g/m)

厚さ 外径 mm	0.46	0.51	0.56	0.64	0.71	0.76	0.89	1.07	1.24	1.47	1.65
6.35	70	77	84	94	104						
7.14	79	87	95	107	118						
7.95	88	97	120	119	132	149					
9.5	106	117	128	145	161	182	197				
11.1	125	138	151	170	189	214	233				
12.7	143	158	173	196	218	247	268	317			
14.3	161	178	196	221	242	250	304	360			
15.9	179	199	218	246	275	312	339	402	464	541	599
19.04	216	239	263	297	332	377	411	488	564	659	731

Service or environment	Temperature, °C
Carburizing	840-950 (usual service temperature)
Gases: Air	1090
Chlorine	340
Hydrogen Chloride	420
Hydrogen	1260
Liquid Sodium, Potassium, Sodium-Potassium (static)	870
Steam	980

■ CONDITIONS AVAILABLE

DESCRIPTION AS WELDED (A.W.) or AS WELDED ANNEALED (A.W.A.)	
COLD WORKED (C.W.) COLD WORKED ANNEALED (C.W.A.)	

■ STANDARD ALLOYS

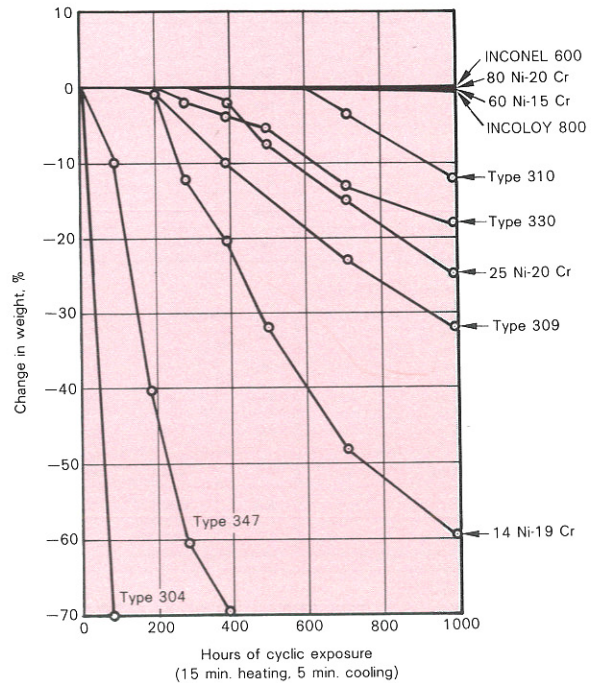
HIGH NICKEL ALLOYS – TYPICAL COMPOSITION

Alloy	Nickel	Chromium	Iron	Carbon	Manganese	Sulphur	Silicon	Copper	Molybdenum	Titanium	Other
INCOLOY 800	30~35	19~23	BAL	0.10	1.50	0.015	1.00	0.75		0.15~0.60	Al 0.15~0.60
INCONEL 600	72 MIN	14~17	6~10	0.15	1.00	0.015	0.50	0.50			
INCOLOY 825	38~46	19.5~23.5	BAL	0.05	1.00	0.03	0.50	1.5~3.0	2.5~3.5	0.6~1.2	Al 0.2

■ Pack Carburization Test

Alloy	Composition	Silicon, %	Increase in Carbon Content, %
80-20	80 Ni-20 Cr	1.46	0.06
INCONEL alloy 600	76 Ni-15 Cr	0.15	0.11
60-15	60 Ni-15 Cr	1.28	0.02
INCOLOY alloy 800	34 Ni-21 Cr	0.34	0.04
Type 330	35 Ni-15 Cr	0.47	0.23
Type 330	35 Ni-15 Cr+Si	1.00	0.08
Type 310	20 Ni-25 Cr	0.38	0.02
Type 314	20 Ni-25 Cr+Si	2.25	0.03
Type 309	12 Ni-25 Cr	0.25	0.12
Type 347	8 Ni-18 Cr+Nb	0.74	0.57
Type 321	8 Ni-18 Cr+Ti	0.49	0.59
Type 304	8 Ni-18 Cr	0.39	1.40
Type 302-B	8 Ni-18 Cr+Si	2.54	0.22
Type 446	28 Cr	0.34	0.07
Type 430	16 Cr	0.36	1.03

● 980°Cでニッケル合金数種のスケーリング抵抗と他合金との比較



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