

5

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

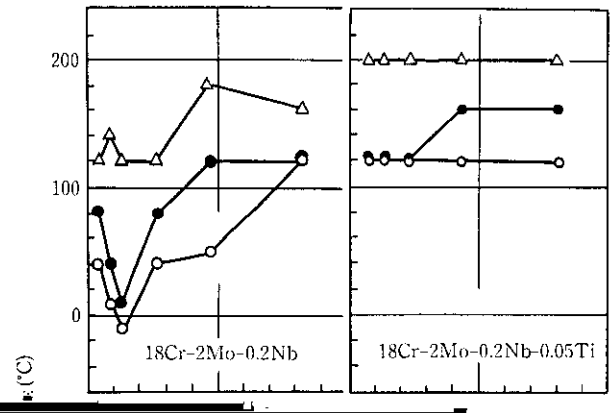
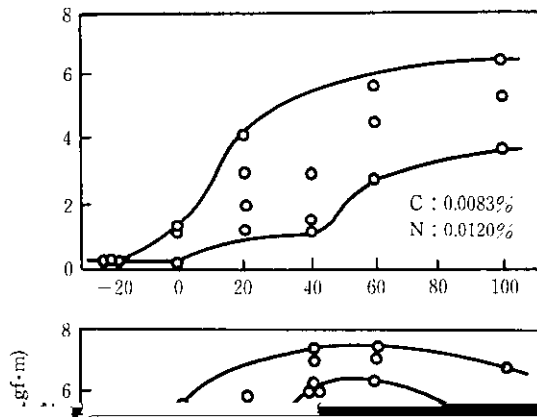


Table 2 Typical examples of chemical composition of R 434 LN-2

(wt %)												
	C	Si	Mn	P	S	Ni	Cr	Mo	N	Al	Nb	Nb/C+N
Specification	≤0.020	≤1.0	≤1.0	≤0.040	≤0.030	≤0.60	17.50~ 19.50	1.75~ 2.25	—	0.1~ 0.4	—	≥10
An example of plates	0.002	0.15	0.15	0.025	0.005	0.10	18.10	2.00	0.0050	0.22	0.24	34

Table 3 Mechanical properties of 6 mm thick R 434 LN-2 plate

	Tensile test			Bend test	Impact test
	0.2% proof strength	Tensile strength	Elongation in G I		
					2 mm V notch Charpy

Table 4. Mechanical properties of the cold pressed head plate

Table 5. Chemical composition of the cold pressed head plate

Table 4. Mechanical properties of the cold pressed head plate	
Item	Value
Yield strength (MPa)	450
Tensile strength (MPa)	550
Elongation at break (%)	20
Impact strength (J/cm ²)	10
Hardness (HV)	150

Table 5. Chemical composition of the cold pressed head plate	
Element	Content (%)
C	0.05
Mn	0.05
P	0.01
S	0.005
N	0.01
O	0.01
Fe	Balance
Cr	16.0
Ni	0.05
Mo	0.05
Cu	0.05
Si	0.05
Al	0.05
Co	0.05
Se	0.05
As	0.05
Bi	0.05
Te	0.05
Ge	0.05
Zn	0.05
Ag	0.05
Cd	0.05
Sr	0.05
Ba	0.05
Ca	0.05
Mg	0.05
Na	0.05
K	0.05
Li	0.05
Be	0.05
B	0.05
F	0.05
Cl	0.05
Br	0.05
I	0.05
At	0.05
Hf	0.05
Zr	0.05
Nb	0.05
Ta	0.05
Sn	0.05
Pb	0.05
Bi	0.05
Po	0.05
At	0.05
Rn	0.05
Fr	0.05
Ra	0.05
Ac	0.05
Th	0.05
Pa	0.05
U	0.05
Np	0.05
Pu	0.05
Am	0.05
Cm	0.05
Bk	0.05
Cf	0.05
Es	0.05
Fm	0.05
Mn	0.05
Co	0.05
Ni	0.05
Cu	0.05
Zn	0.05
Ga	0.05
Ge	0.05
As	0.05
Se	0.05
Br	0.05
Kr	0.05
Rb	0.05
Sr	0.05
Zr	0.05
Nb	0.05
Mo	0.05
Tc	0.05
Ru	0.05
Rh	0.05
Pd	0.05
Ag	0.05
Cd	0.05
In	0.05
Sn	0.05
Pb	0.05
Bi	0.05
Po	0.05
At	0.05
Rn	0.05
Fr	0.05
Ra	0.05
Ac	0.05
Th	0.05
Pa	0.05
U	0.05
Np	0.05
Pu	0.05
Am	0.05
Cm	0.05
Bk	0.05
Cf	0.05
Es	0.05
Fm	0.05
Mn	0.05
Co	0.05
Ni	0.05
Cu	0.05
Zn	0.05
Ga	0.05
Ge	0.05
As	0.05
Se	0.05
Br	0.05
Kr	0.05
Rb	0.05
Sr	0.05
Zr	0.05
Nb	0.05
Mo	0.05
Tc	0.05
Ru	0.05
Rh	0.05
Pd	0.05
Ag	0.05
Cd	0.05
In	0.05
Sn	0.05
Pb	0.05
Bi	0.05
Po	0.05
At	0.05
Rn	0.05
Fr	0.05
Ra	0.05
Ac	0.05
Th	0.05
Pa	0.05
U	0.05
Np	0.05
Pu	0.05
Am	0.05
Cm	0.05
Bk	0.05
Cf	0.05
Es	0.05
Fm	0.05

Table 7 Welding conditions of 6 mm thick R 434 LN-2

Table 8 Chemical composition of matching composition

	MIG welding	TIG welding	sumable	(wt %)
--	-------------	-------------	---------	--------

参 考 文 献

W. O. Rieder, H. D. G. ...