

%

%

%

%

%

% %

/ / Arc length

%

%

:

Mild steel

High carbon steel

Special alloy steel

Cost Iron

Non ferrous Metal ()

:

%

%

-

Cao

-Ti

-Na₂O

-F₂Ca

Si

% %

Hydrigen

()

:

- % - % - % -

- % % - %

%

V

-% TiO₂

-% / -% / -%

.% /

V

$\frac{5}{64}$

$$(\quad)$$

$$I_a = k \cdot d$$

$$) \qquad d \qquad I_a$$

$$k \qquad \qquad ($$

$$k \qquad \qquad A/mm$$

$$\mathbf{k} = \quad \mathbf{k} =$$

$$\mathbf{k} = \quad \mathbf{k} =$$

$$\mathbf{k} = \quad \mathbf{k} =$$

$$E_a=\alpha.\beta.\lambda$$

$$\alpha\,,\,\beta$$

$$\beta = \qquad \qquad \alpha =$$

-a

-b

-c

-d

c,d

a,b

:Vertiealwelding

/

:Overhead welding

$$\frac{E}{60} \quad 10$$

$$= {\rm E}$$

$$= 60$$

$$= 1\,$$

$$= 0$$

$${\rm E}$$

$$\big)\,.$$

$$\mathrm{FC}$$

$$.($$

$$\frac{60000}{1000}*0/7 = 42 \ kg \Big/ mm^2$$

DC

DC AC

=DC =AC) .

AC DC

AC

AC

DC

DC

AC

(Pipe)

70-30

BWG

1 in $\frac{3}{4}$

PT

$\frac{3}{4}$ in. OD

$1\frac{1}{4}$ -in in. OD

1-in

-in OD $\frac{3}{4}$

.1-in OD 1-in in. OD $\frac{3}{4}$ $1\frac{15}{16}$ -in

$1\frac{3}{4}$ -in

in IPS (Pipe)

24 in

in

300 PSI $\frac{3}{8}$ in

24 in

(PIPE)

3 fps

4fps

120

120