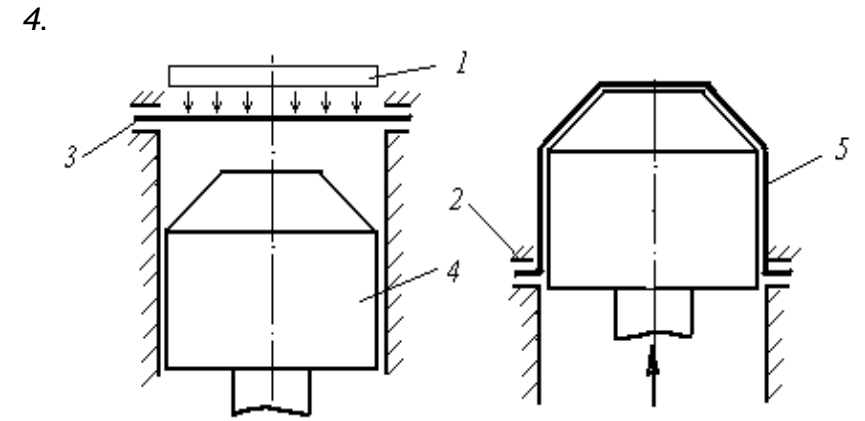


1. -
 3 -
 5 -
 2. -
 2,5
 3

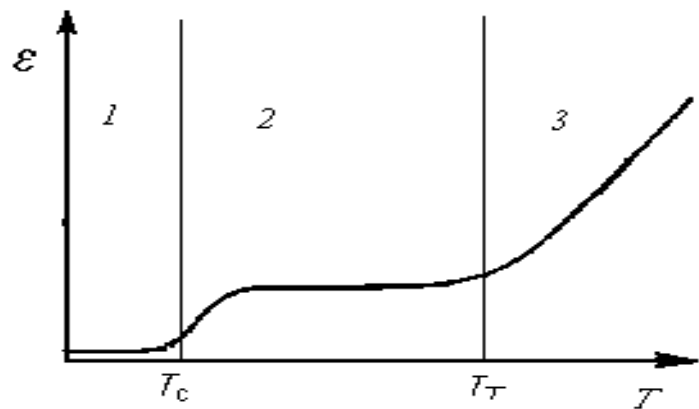
0,15-2,5
) (.2)
 3 5



2. -
 3 -
 5 -
 ; 2 -
 ; 4 -
 4

[2 - 7, 9].

3.



3.

:

-

; 1, 2, 3 -

;

,

)

:

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(

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1

| | | |
|---|---------|-----------|
| | - | - |
| | 100-160 | 13,7-18,6 |
| | 190-230 | 50-70 |
| | 120-200 | 40-66 |
| | 150-200 | 29-40 |
| | 110-150 | 40-46 |
| - | 120-135 | 18-26 |
| | 90-135 | 6,8-14,7 |

()

()

()

$$\tau = \frac{V_0}{G} \left(\frac{V}{V_0} - 1 \right) \left(\frac{P_0 + \Delta P}{P} \right)^{\frac{1}{K}}, \quad (1)$$

V_0 -

V -

P_0 -

P -

ΔP -

$$\Delta P \ll P_0.$$

(1)

$$G = \mu S \sqrt{\frac{2K}{1+K}} \cdot R T \quad (2)$$

μ -

($\mu < 1$,

);

S -

(),

;

Rp, Tp -

()

(1)

(.1)

Vo, Po

(3),

$$\tau = \frac{V_0}{G} \frac{\left(\frac{2}{K+1}\right)^{\frac{1}{1-K}}}{\left(1 - \frac{\Delta P}{P_0}\right)^{\frac{K+1}{2K}}}, \quad (3)$$

G -

(3),

(2),

- G ,

: S

, R , T

(3)

- ΔP

$$- P_0, \quad (3),$$

(ΔP < P₀),

[6],

(P₀ = 0,1)

$$\tau_0 \approx -\frac{1}{\pi^2} \cdot \frac{\delta^2}{a} \cdot \ln \left(\frac{4}{\pi} \cdot \frac{T - T}{T - T} \right), \quad (4)$$

$$\tau_0 \approx -\frac{4}{\pi^2} \cdot \frac{\delta^2}{a} \cdot \ln \left(1,1 \cdot \frac{T - T}{T - T} \right), \quad (5)$$

$$\delta = \frac{S \cdot \delta}{S}, \quad (6)$$

[5 - 7].

$$\tau = \tau + \tau + \tau + \tau_0 + \tau, \quad (7)$$

$$= m \frac{3600}{\tau}, \quad (8)$$

1.

- 2. , 1973. – 20 .
- 3. / , 1986. – 76 .
- 4. , 1984. – 214 .
- 5. , 1981. – 231 .
- 6. , 1989. – 119 .
- 7. , 1977. – 158 .
- 8. , 1975. – 96 .
- 9. , 1972. – 272 .
- 10. , 1970. – 596 .

– : / – : , 1977. – 244 .