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The results of experimental and theoretical investigation upon microdestruction discrete-wave criterion connection with dispersion process are given. The possibility to choose of energy-wise optimal conditions with use this criterion is basing for solid materials pounding.

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[1 - 3],

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[3, 4].

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[1 - 6].

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[7].

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$t_I : t_{II} : t_{III} = 1 : 10^{-3} : (10^{-12} - 10^{-6}),$

t_I

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$(t_{II} \quad t_{III})$ [1, 8, 9].

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, } 2,1 3,1, -
 } Q 2,6 [10]. } 0 2,1...3,1, -
 , } ½ 2,1...3,1 -
 . -
 } · -
 , L -
 l = L / l -
 - · , -
 } = } M a0 Q 2,1...3,1 , }

$$\lim_{L_k \rightarrow \infty} \frac{K_k}{l_k} = \frac{K_B}{\langle r \rangle}$$
 }
 , M a0 -
 ·
 , } L -
 · -
 , “ ”
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 :
 , (), -
 · · -
 [5, 6]. -
 } -
 · , 10⁻⁵ 10⁻¹ -
 d / d₋₁ , -
 } = } / Ma0 = 2,6 ± 0,5 [3, 10]. , d / d₋₁ -
 -

[1, 2].

15 $(10^{-10} \dots 10^5)$.

[8, 9],

[3].

$$\chi_s \cong \chi N \frac{\chi_B}{\langle a \rangle}; \quad N = \chi MaO^2 / h \hat{m}; \quad N Q / V; \quad V = h/mMaO, \quad (1)$$

$h - ; \hat{m} = cMa0 -$
 $, V -$
 $V / c = 10^{-3} \dots 10^{-2}.$
 MW_{V0}
 $(I Q Ma0 = 10^{-10})$
 $: MW_{V0} = x_s / Ma0 = 2,6 \cdot (10^6 \dots 10^7) / ^3; x_s = 2,6 \cdot (10^2 \dots 10^3) / ^2; N$
 $= 10^2 \dots 10^3, x = 1 \dots 10 / ^2, \} = \} M 0 = 2,6. \quad 2-3 -$
 $x_s \quad x -$

$[11]:$
 $W d Q x_s; W d Q const; x_s Q 3 \cdot 10^3 / ^2. \quad W -$
 S_d / V
 $S_d / V \approx (W y) / x (y - \dots, V -$
 $).$

$$x_s = (1 + \frac{m}{2}) \times \frac{S_{\Sigma}}{S}, \quad (2)$$

$m - ,$
 $; S -$

$r_{pq} [3]:$

$$I_{pq} = \frac{d_p}{d_q} = (B_{\})^{r_{pq}}; r_{pq} = p - q. \quad (3)$$

: $I_{pq} \in \} / < > 2,$

$r_{pq} = 1 \dots 2.$ (" ")

,
: $I_{pq} = 5 \cdot 10^3, r_{pq} = 7 \dots 9.$

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- [3, 5].

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