

-

-

: , ,

가 , (, ,)

가 .

가 .

-

-

1.

1.1 - Tex-System

가 , , (roving silver), , ,

. 30

(ISO) 1948-1956 “ - ” .

1967 .

가 (: g/km).
Tex 가 . (tex).

$$1\text{tex} = 1\text{g/km}(=10^{-6}\text{kg/m}) = 1,000 \quad 1\text{g}$$

1,000m가 1 g 1tex () 가 .
10
(mtex), (dtex), (ktex)가 .

Millitex	Mtex	1 mg/km
Decitex	Dtex	1 dg/km
Tex	Tex	1 g/km
Kilotex	ktex	1 kg/km

() Tt (60 910
)
: Tt .

$$: 45\text{tex} = 45\text{g}/1,000\text{m}$$

$$450\text{dtex} = 450\text{g}/10,000\text{m}$$

: 가

Tex dtex

of \ in	millitex	decitex	tex	kilotex
millitex		$\frac{\text{mtex}}{100}$	$\frac{\text{mtex}}{1000}$	$\frac{\text{mtex}}{10^6}$
decitex	$\text{dtex} \times 100$		$\frac{\text{dtex}}{10}$	$\frac{\text{dtex}}{10^4}$
tex	$\text{tex} \times 1000$	$\text{tex} \times 10$		$\frac{\text{tex}}{10^3}$
kilotex	$\text{ktx} \times 10^6$	$\text{ktx} \times 10^4$	$\text{ktx} \times 10^3$	

ktx 1m가 g

tex 1,000m가 g

dtex 10,000m가 g

mtex 1,000,000m가 g

< >

$$\text{tex} = \frac{G \times 1,000}{L} \quad \text{dtex} = \frac{G \times 10,000}{L}$$

$$L = \frac{G \times 1,000}{\text{tex}} \quad L = \frac{G \times 10,000}{\text{dtex}}$$

$$G = \frac{\text{tex} \times L}{1,000} \quad G = \frac{\text{dtex} \times L}{10,000}$$

G =

L =

1.2 -

- (Titer)

				Tt(tex)
(international Titer*) (Denir-System)	Td	1g	9km	0, 1111td
*)				

“den” 9,000m . “den” 9,000m가
g .

: 120den = 9,000m 120g

: 가 .

“den” .

“Td” .

$$: \text{den} = \frac{45 \times 9,000}{L} \quad L = \frac{G \times 9,000}{\text{den}}$$

$$G = \frac{\text{den} \times L}{9,000}$$

G =

L =

: 4,500m 45g

$$\text{den} = \frac{45 \times 9,000}{4,500} = 90\text{den}$$

2.

(60 900)

- .

: .

: (Nm) 1

.

“Nm” 가 1g .

“Nm” .

: Nm 100 = 100m가 1g .

: 가 가 .

$\begin{aligned} &: \text{Nm} = \frac{\text{L}}{\text{G}} \quad \text{G} = \frac{\text{L}}{\text{Nm}} \quad \text{L} = \text{Nm} \times \text{G} \\ &\text{G} = \\ &\text{L} = \end{aligned}$

: 4,500m 45g 4.5km 0.045kg ,

$$\text{Nm} = \frac{4,500\text{m}}{45\text{g}} = \text{Nm}100 \quad \text{Nm} = \frac{4.5\text{km}}{0.045\text{kg}} = \text{Nm}100$$

2.1 (60 910)

$$Nm = \frac{1,000}{tex} \quad Nm = \frac{9,000}{den} \quad Nm = \frac{10,000}{dtex}$$

$$den = \frac{9,000}{Nm} \quad den = tex \times 9 \quad den = \frac{det \times 9}{10}$$

$$tex = \frac{1,000}{Nm} \quad tex = \frac{den}{9} \quad tex = \frac{dtex}{10}$$

$$dtex = \frac{10,000}{Nm} \quad dtex = \frac{den \times 10}{9} \quad dtex = tex \times 10$$

: 4

10tex, 100dtex, Nm 100, 90 den

$$Nm = \frac{1,000}{10tex} = Nm100 \quad \frac{9,000}{90tex} = Nm100 \quad \frac{10,000}{100tex} = Nm100$$

$$den = \frac{9,000}{Nm100} = 90den \quad 10 \times tex \times 9 = 90den \quad \frac{100 \times 9}{10} = 90den$$

$$tex = \frac{1,000}{Nm100} = 10tex \quad \frac{90den}{9} = 10tex \quad \frac{100}{10} = 10dtex$$

$$dtex = \frac{10,000}{Nm100} = 100dtex \quad \frac{90den \times 10}{9} = 100dtex \quad 10tex \times 10 = 1000dtex$$

Nm dtex

$$\text{Nm } 24 = 416.7 \text{dtex가}$$

$$420 \text{dtex}$$

가

:

. Nm 1

10

100

: 0.22Nm

,

100

,

22 Nm

45 tex

.

100

4,500

가

.

(1)

$$\therefore \text{tex} = \frac{G \times 1,000}{L}$$

$$\therefore L = \frac{G \times 1,000}{\text{tex}}$$

$$\therefore G = \frac{\text{tex} \times L}{1,000}$$

L =

G =

:

100m

2.5g

Tex

?

$$\text{Tex} = \frac{G \times 1,000}{L} = \frac{2.5\text{g} \times 1,000}{100\text{m}} = 25\text{tex}$$

50tex

120g .

가 가?

$$L = \frac{G \times 1,000}{\text{tex}} = \frac{120 \times 1,000}{20\text{tex}} = 6,000\text{m}$$

(Cop) 50 tex 20,000m .

(Cop) g

가?

$$G = \frac{\text{tex} \times L}{1,000} = \frac{50\text{tex} \times 20,000\text{m}}{1,000} = 1,000\text{g} = 1\text{kg}$$

(2) Titer()

$$\text{: den} = \frac{G \times 9,000}{L}$$

$$\text{: L} = \frac{G \times 9,000}{\text{den}}$$

$$\text{: G} = \frac{\text{den} \times L}{9,000}$$

L =

G =

: 32g , 1,200m den 가?

$$\text{den} = \frac{G \times 9,000}{L} = \frac{32g \times 9,000}{1,200} = 24\text{den}$$

: 32g 가 24 den ?

$$L = \frac{G \times 9,000}{\text{den}} = \frac{32g \times 9,000}{24\text{den}} = 1,200\text{m}$$

: 24den 1,200m 가 가?

$$G = \frac{\text{den} \times L}{9,000} = \frac{24\text{den} \times 1,200\text{m}}{9,000} = 32g$$

(3)

$$: Nm = \frac{L}{G}$$

$$: L = Nm \times G$$

$$: G = \frac{L}{Nm}$$

$$L =$$

$$G =$$

:

1.

100m

2.5g

?

$$Nm = \frac{L}{G} = \frac{100m}{2.5g} = Nm40$$

2. 50Nm 가
120g . m 가 가?

$$L = Nm \times G = Nm 50 \times 120g = 6,000m$$

3. Cone Nm 20 20,000m . Cone g
가?

$$G = \frac{L}{Nm} = \frac{20,000}{Nm20} = 1,000g = 1kg$$

(4) 1



●

1 ,

$$25tex \times 2 \quad (25 \quad)$$

25tex × 2 , 50tex
1,000 가 50 .

$$\begin{aligned}(500+300)\text{dtex} &= 500\text{dtex} \\ &+ 300\text{dtex} \\ &800\text{dtex}\end{aligned}$$

● :
1 ,

$$\begin{aligned}&40/2 \quad (40\text{Nm}) \\ &40/2 \quad \text{Nm } 20 \quad 20 \\ &\text{가 } 1 \\ &: \text{Nm } 36 \quad 3 = 3 \quad (\text{Nm } 36/3) \\ &: \frac{36}{3} = \text{Nm}12\end{aligned}$$

$$\begin{aligned}&1 : \\ &: \text{Nm } 12 \quad \text{Nm } 18 \quad 2 \quad (\text{Nm } 12 + 18) \\ &: 12 \times 8 = 96 = 4.8 \\ &12+8 = 20 \\ &: Z1 \times Z2 \\ &Z1 + Z2\end{aligned}$$

2 :

: Nm 36 3 2

(36/3/2)

$$: \frac{36}{3 \times 2} = 6$$

(5)



●

2 ,

,

25tex × 2 × 2

25tex × 2 × 2 100

, 1,000m 가 100g .

.

가 (%)

.

가

●

:

2

,

,

,

.

Nm 40/2/2

40/2/2

Nm 10

.

10m

가 1g .

(6)

1m² ()

1m ()

.

m²

80-120g

가 .