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(21) 10-2002-0013483  
(22) 2002 03 13

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(71) 211-9 103

(72) 211-9 103

(74)

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(54)

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가

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1

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1:

2:

3:

, 1

$$1, \quad (2), \quad (2), \quad (3) \quad (1)$$

(2) 가 (3), (2) (3),

(3)

(石)

가

가 ,

(2) (3) 1 (2) (1) 가 ,

(3) 가 1:2 1:3 ,

, , , (2)

30 % 50 - 100 , 100 % 10 -

, 100 가 50 가 가 가

30%, 10% 가

, 100 - 200 , 100 % 15 - 20 %가

가 100 가 100 가 100

, 15 %, 20 %

25 - 50 % 가

100 % 1 40kg

24kg, 75  
8kg, 150  
40kg, 2mm, 가 80kg, 가

$$(2) \quad ( \quad ), \quad (1) \quad ( \quad ),$$

가 ,

가 , 가

가

가 .

(57)

1.

2.

1  
100 % 15 - 20 %가

100 % 10 - 30 %가

3.

1 , 50 - 100  
100 - 200

A cross-sectional diagram of a composite structure. The structure consists of a series of alternating layers. There are five layers of a material with a circular cross-section, labeled 1. Between these are five layers of a material with a central circular core and a surrounding ring, labeled 2. The entire structure is shown against a background of a speckled pattern, representing a substrate or a lower layer of the composite.