Abstract

Tremendous interest in graphene as underpinning of essence matrix is drawn due to its excellent mechanical parcels coupled with outstanding thermal and electrical parcels.0.5 wt graphene nanoplatelets (GNPs) corroborated pure Al mixes were fabricated by greasepaint metallurgy. Goods of microstructure on both mechanical and physical parcels are anatomized totally. GNPs were completely smoothed after mechanical shifting [1]. The Raman spectroscopy results of GNPs verifed the disfgurement repairing during compound maquillages medication. After hot extrusion, the scanning electron microscope results presented that GNPs distributed slightly in Al matrix. Aluminum

K **y** **:** ; ; ;

I **c**

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M

S **a** **y**

( ) G ( ) B ( ) C ( ) C

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(200 21 62 3 3.)

(C)

C a ac a y ca

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7 2 C 1 3

( ) 10

a a a y

3418

C (C). C 6000

10 C/

300 C

W ab y

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31 8 3 (250)

G

11

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G G 6 5

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G B 0 1 C 45 71 C 2 3

B

2 = 21 33

C 2 12

C B

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a

B C / B

C

B

13 C

C G

231 7 13 3 C

B 1 C B C

G B

G B 0 01 C 227 C

12 7 C

214 C

14

C B 2

G C 0 01

0 1 45

15 7 ( )

B

C (17) 0 01 C

B 4 1 0 1

70 C

C /

0 037

0 7 G 0 2 C 0 7 G

231 C 228 C

C

15

D y

G 7 2 / 3

B (78 / 3)

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C (7 1 / 3). G (8 6 / 3) B

7 05 / 3

G B 0 1 C G

B 0 01 C C 2 C

8 17 / 3 G 6 5 /

8 45 / 3 16