

1

PLATINUM-GROUP MINERALS FROM THE COLLECTION OF GOKHRAN OF RUSSIA

Photo: Michael B. Leybov.



a.1

a.1. Isoferroplatinum: cubic crystal.
11 x 9 x 6.5 mm, 8.9 g.

a.2. Isoferroplatinum: parallel intergrowth of two interpenetrant twins on (111) covered with dark brown "jacket" of iron hydroxides.
12 x 9 x 8 mm, 7.0 g.

a.3. Isoferroplatinum: cubic crystal elongated on [100]. 13 x 8 x 7 mm, 9.3 g.

a.4. Isoferroplatinum: moderately rounded interpenetrant twin on (111).
17 x 14 x 10 mm, 13.4 g.

a.5. Zvyagintsevite: distorted cubic crystal.
12 x 9 x 6 mm, 9.0 g.



a.2



a.3



a.4



a.5

2

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a.6. Isoferroplatinum: crude interpenetrant twin on (111).
20 x 15 x 12 mm (single crystal 18 x 11 mm), 19.3 g.

a.7. Isoferroplatinum: elongated cubic crystal.
9 x 6 x 6 mm 5.0 g.

a.8. Isoferroplatinum: cubic crystal with coarse
sculptured surface. 11 x 10 x 7 mm, 12.6 g.

a.9. Isoferroplatinum: interpenetrant twin on (111)
partly covered with gold "jacket".
9 x 7 x 6 mm, 2.6 g.

a.10. Isoferroplatinum: blocky cubic crystal with
crusts of gold minerals on faces.
9 x 8 x 7 mm, 6.7 g.

a.11. Isoferroplatinum: blocky cubic crystal with
gold crust that partly covers one of crystal faces.
9 x 9 x 8 mm, 10.0 g.



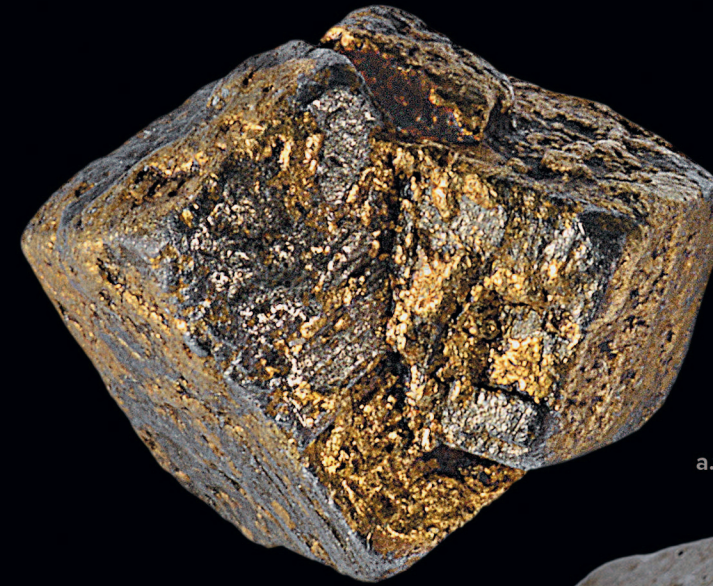
a.6



a.7



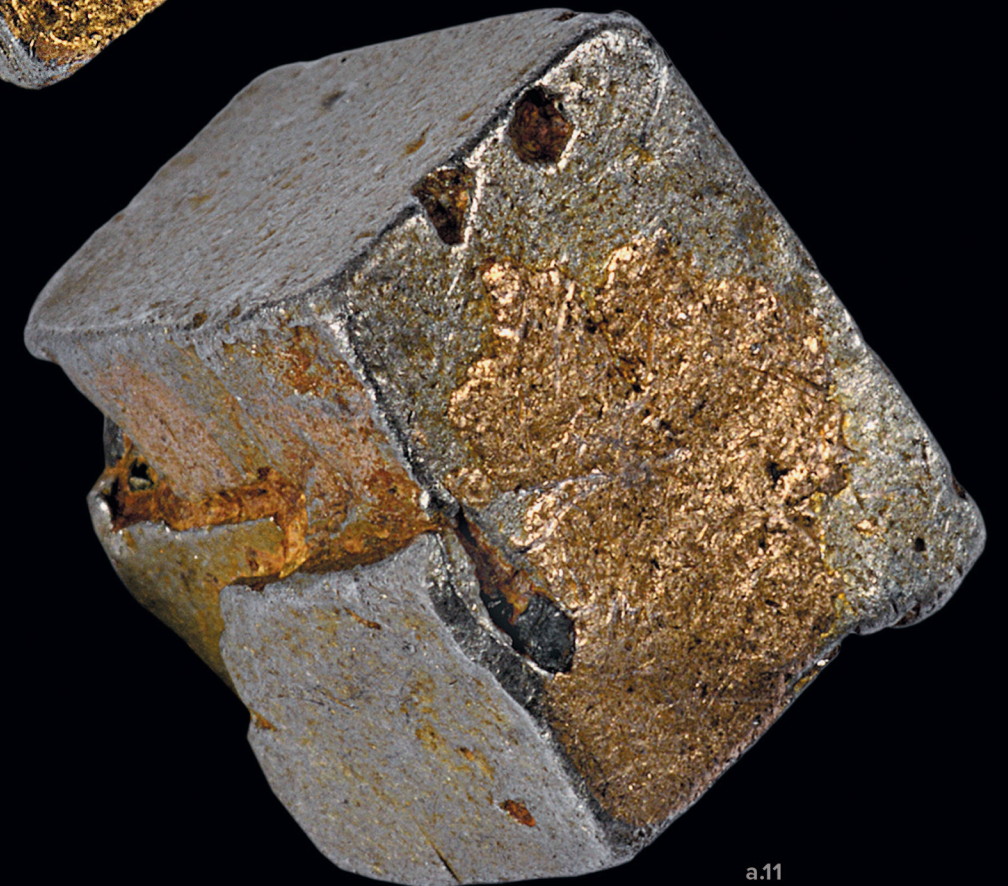
a.8



a.10



a.9



a.11

3

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a.12. Isoferroplatinum: repeated interpenetrant twin on (111) partly covered with gold "jacket".
12 x 8 x 5 mm, 3.6 g.

a.13. Isoferroplatinum: intergrowth of two interpenetrant twins on (111) partly covered with gold "jacket".
13 x 8 x 7 mm, 4.4 g.

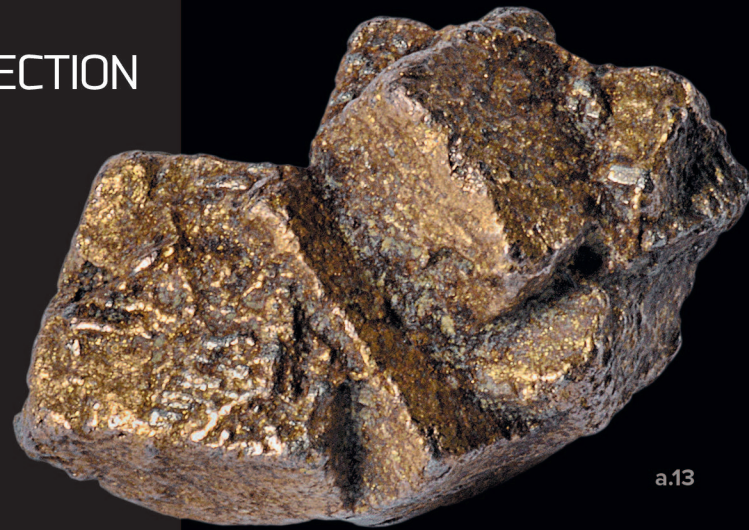
a.14. Isoferroplatinum: distorted cubic crystal with coarse sculptured surface.
16 x 12 x 6 mm, 13.5 g.

a.15. Isoferroplatinum: repeated interpenetrant twin on (111).
11 x 8 x 7 mm, 3.7 g.

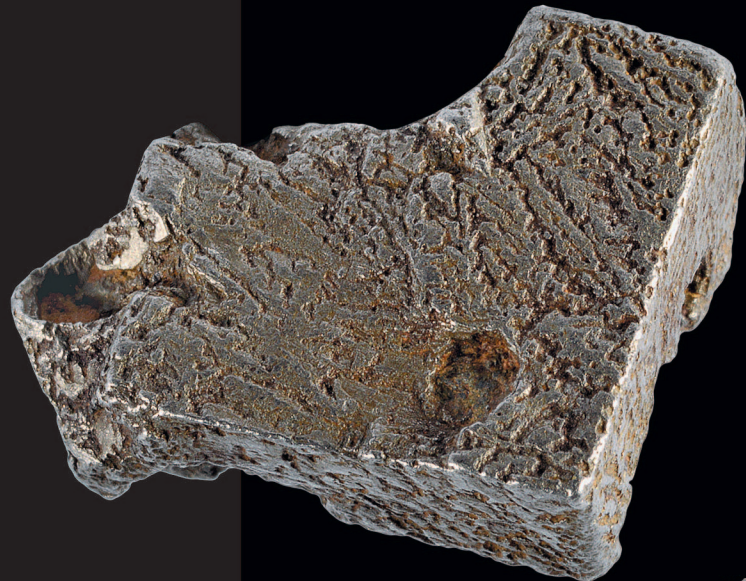
a.16. Isoferroplatinum: slightly rounded interpenetrant twin on (111).
16 x 14 x 8 mm, 15.9 g.



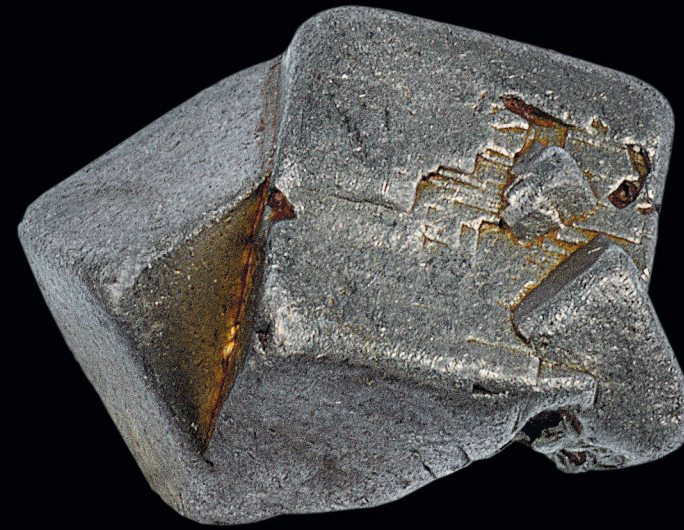
a.12



a.13



a.14



a.15a



a.15b



a.16a



a.16b

4

PLATINUM-GROUP MINERALS FROM THE COLLECTION OF GOKHRAN OF RUSSIA

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a.17



a.19



a.18



a.21

a.17. Isoferroplatinum: interpenetrant twin on (111) with complex sculpture of surface. 17 x 12 x 10 mm, 10.7 g.

a.18. Isoferroplatinum: slightly rounded repeated interpenetrant twin on (111). 17 x 15 x 10 mm, 13.0 g.

a.19. Isoferroplatinum: cubic crystal with sculptured surface. 8 x 6 x 6 mm, 5.2 g.

a.20. Isoferroplatinum: interpenetrant twin on (111) with complex sculptured surface. 13 x 11 x 8 mm, 4.4 g.

a.21. Isoferroplatinum: slightly rounded and slightly distorted cubic crystal. 12 x 9 x 7 mm, 14.1 g.



a.20