

**Gems & Gemology Data Depository: Type and description of the luminescence for the 52 main diamonds in the Napoléon Necklace.**

From Gaillou E., Post J.E. (2007) An examination of the Napoleon Diamond Necklace. G&G, Vol. 43, No. 4, pp. 352–357.

| Number | Type | Luminescence              |                             |                 |
|--------|------|---------------------------|-----------------------------|-----------------|
|        |      | Fluorescence              |                             | Phosphorescence |
|        |      | Long-wave UV              | Short-wave UV               |                 |
| 1      | Ia   | Inert                     | Weak, orange                | No              |
| 2      | IaAB | Very strong, blue         | Medium, blue                | Yes             |
| 3      | IaAB | Very weak, yellowish blue | Very weak, yellowish blue   | Yes             |
| 4      | IaAB | Very strong, blue         | Strong, blue                | Yes             |
| 5      | Ia   | Inert                     | Very weak, orange           | No              |
| 6      | IaAB | Medium, blue              | Very weak, blue             | Yes             |
| 7      | IaAB | Strong, blue              | Medium, yellowish blue      | Yes             |
| 8      | Ia   | Inert                     | Weak, orange                | No              |
| 9      | IaAB | Very strong, blue         | Very strong, blue           | Yes             |
| 10     | IaAB | Strong, blue              | Medium, blue                | Yes             |
| 11     | IaAB | Very strong, blue         | Very strong, blue           | Yes             |
| 12     | Ia   | Medium, orange            | Very strong, orange         | No              |
| 13     | IaAB | Very strong, blue         | Very strong, yellowish blue | Yes             |
| 14     | IaAB | Very weak, orange         | Very weak, orange           | No              |
| 15     | IaAB | Very strong, blue         | Very strong, blue           | Yes             |
| 16     | IaAB | Medium, blue              | Inert                       | Yes             |
| 17     | IaAB | Medium, blue              | Inert                       | Yes             |
| 18     | Ia   | Medium, orange            | Very strong, orange         | No              |
| 19     | IaAB | Strong, blue              | Very strong, blue           | Yes             |
| 20     | IaAB | Inert                     | Very weak, orange           | No              |
| 21     | IaAB | Very weak, yellowish blue | Inert                       | No              |
| 22     | IaAB | Very strong, blue         | Very strong, blue           | Yes             |
| 23     | IaAB | Very strong, blue         | Very strong, blue           | Yes             |

|    |      |                   |                          |     |
|----|------|-------------------|--------------------------|-----|
| 24 | IaAB | Strong, blue      | Medium, blue             | Yes |
| 25 | IaAB | Very strong, blue | Weak, blue               | Yes |
| 26 | IaAB | Medium, blue      | Weak, blue               | Yes |
| 27 | IaAB | Strong, blue      | Weak, blue               | Yes |
| 28 | IaAB | Very strong, blue | Very strong, blue        | Yes |
| 29 | IaAB | Very strong, blue | Medium, blue             | Yes |
| 30 | Ila  | Inert             | Inert                    | No  |
| 31 | IaAB | Very strong, blue | Medium, blue             | Yes |
| 32 | Ila  | Strong, orange    | Very strong, orange      | No  |
| 33 | IaAB | Strong, blue      | Medium, blue             | Yes |
| 34 | Ila  | Inert             | Inert                    | No  |
| 35 | IaAB | Strong, blue      | Strong, yellowish blue   | Yes |
| 36 | IaAB | Very strong, blue | Very strong, blue        | Yes |
| 37 | Ila  | Inert             | Inert                    | No  |
| 38 | Ila  | Weak, orange      | Strong, yellowish orange | No  |
| 39 | IaAB | Strong, blue      | Very weak, blue          | Yes |
| 40 | IaAB | Very strong, blue | Very strong, blue        | Yes |
| 41 | IaAB | Very strong, blue | Medium, blue             | Yes |
| 42 | Ila  | Inert             | Inert                    | No  |
| 43 | IaAB | Very strong, blue | Very strong, blue        | Yes |
| 44 | Ila  | Inert             | Inert                    | No  |
| 45 | IaAB | Strong, blue      | Strong, yellowish blue   | Yes |
| 46 | Ila  | Inert             | Inert                    | No  |
| 47 | IaAB | Weak, orangy-blue | Weak, yellowish blue     | No  |
| 48 | IaAB | Very strong, blue | Very strong, blue        | Yes |
| 49 | IaAB | Very strong, blue | Strong, blue             | Yes |
| 50 | IaAB | Strong, blue      | Strong, blue             | Yes |
| 51 | IaAB | Medium, blue      | Weak, blue               | Yes |
| 52 | IaAB | Medium, blue      | Weak, blue               | Yes |

Note: The diamonds are numbered clockwise from the top of the necklace (the clasp diamond is number 1): 1 to 28 for the old cut diamonds in the “inside,” 29 to 47 (from top right to top left) for the drops (pendeloques and briolettes) in the “outside,” then 48 to 52 for the brilliants on the top of pear-shape drops (see figure 5 in the paper).