

## RED DIAMOND

A red diamond is a rare natural diamond and exhibits the same properties as colourless diamonds. Red diamonds are the most expensive; even more than other rare diamonds like pink or blue diamonds. Red diamonds only exist with one colour intensity, Fancy, although their clarities can range from Flawless to Included, just like white diamonds. Red diamonds are of pure carbon.



The cause of red colour is not well understood. Most accepted explanation is that it is the result of plastic deformation in their crystal lattice structure during diamond formation. Some of the carbon atoms are misplaced as the diamond moves up through kimberlite deposit under high pressure and this intense pressure of the movement causes varying shades like pink or red. They occur in Argyle mines, Kimberley, West Australia, Brazil, Russia and some African countries. Red colour diamonds are also produced by irradiating white diamonds with high energy charged particles and annealing in HPHT conditions. Spectroscopic methods are very important to identify natural red colour diamonds from irradiated & annealed diamonds. GII has expertise and infrastructure for that.

A few of the most famous Red diamonds of the world along with its origins are cited in the following.:

### **Kazanjian Red – 5.05 Ct (Lichtenberg, South Africa)**



It is of beautiful Emerald cut weighing 5.05 ct made from original rough form of 35 Ct. It ranks second amongst the most famous Red diamonds in the world .

### **Graff Purplish Red Diamond – 2.26 Ct (South Africa)**



The diamond has a rare purplish-red color, and a weight of 2.26 carats. The cut of the diamond is a brilliant-cut but the shape is an unusual octagonal shape. The stone sits in an 18k pink gold ring that is surrounded by four heart shaped diamond petals

### **Moussaieff Red – 5.11 Ct (Brazil)**



It is the largest red diamonds in the world. Trilliant cut and internally flawless , initially named as `Red Shield` but after the Moussaieff jewelry firm acquired it, the name was changed to the Moussaieff Red Diamond

### **DeYoung Red Diamond– 5.03 Ct (USA)**



This beautiful round cut stone weighs 5.03 carats and is the third largest red diamond modified to round brilliant-cut, fancy dark red diamond with a slightly brownish hue, giving it the appearance of a rhodolite garnet.

### **The Hancock Red-0.95 Ct (USA)**



It is one of the most famous diamonds in the world. a 0.95 ct, Fancy purplish red round brilliant diamond, sold at auction in 1987 for over \$926,000 per carat, setting a new record.

### **References:**

[1.https://www.livescience.com/10128-mysterious-rare-red-diamond-display.html](https://www.livescience.com/10128-mysterious-rare-red-diamond-display.html)

[2.https://blog.arpeggediamonds.com/the-most-famous-red-diamonds-in-the-world](https://blog.arpeggediamonds.com/the-most-famous-red-diamonds-in-the-world)

[3. Wikipedia on red diamonds](#)