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'Research can be useful for other professionals working in this field ' Ruby is used not only as a first-class gem, but also in laser technology and the watch industry.

For the study, scientists from the Institute of Minerals and Materials Science () took natural rubies collected in the Indian city of Sinapal.. E-Catalog - a catalog of descriptions and prices for household and computer equipment, electronics, goods for home and office.. We do not sell, but we know where to buy microwave ovens Rubin MS-2080ML at the best price in online stores.. Ruby, illuminated with ultraviolet light Orbital Joe / flickr com Scientists have found a new way to improve the color, transparency and brilliance of rubies: for this they can simply be heated in a microwave oven.

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The stones had the shape of elongated hexagonal prisms and their sizes ranged from 5 to 11 millimeters. [Fsx Activation Code](#)



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Before processing rubies were previously cleaned of dirt and grease The stones were heated in a microwave oven to a temperature of 1.. The crystal has a high mechanical strength and thermal conductivity, it is easy to grow to large dimensions without loss of high optical quality.. 5 thousand degrees Celsius Researchers used different methods to compare processed and untreated samples: X-ray analysis, optical spectroscopy, fluorescence spectrophotometry, Raman spectroscopy, and X-ray photoelectron spectroscopy.. As a result, the authors of the article found that the heating of stones in a microwave oven influenced the color and structure of the ruby.. In particular, the color of the ruby changed from reddish-black to light pink.

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Photoluminescence analysis showed a decrease in the crystal defects of the vacancy type (the absence of an atom at the lattice site), and dislocations (shifting the crystal parts relative to each other).. Microwave Oven Manual of instructions for use and installation Model: Rated Voltage: Rated Input Power(Microwave): Rated Output Power(Microwave): Oven Capacity: External Dimensions: Net Weight.. Rubies before and after microwave treatment Researchers from India's CSIR - Institute of Minerals and Materials Technology (IMMT) have tested a new way to improve the colour, clarity and lustre of rubies: microwaves.. Changes in the properties of optical absorption were observed in the range of electromagnetic radiation with a wavelength of 200-800 nanometers (visible and ultraviolet radiation).. Article on the effect of microwave heating on rubies in the journal Applied Physics A.. Reprinting of any materials is allowed only with the written consent of the editorial staff.. Scientists suggest that changes in color and transparency of ruby can be associated with valence states of chromium, iron and titanium, which are part of its composition.. In the catalog you can find all the information you need to choose - microwave ovens, the selection of models by parameters, detailed, product search by name, users, product photo galleries, glossary of terms, reviews, instructions, goods, experts, and much more.. 'Microwave heating - an unconventional method of rapid thermal excitation - gives new results for precious stones like ruby,' one of the researchers. 34bbb28f04 [Download Advanced Systemcare For Android](#)

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