

# OGF - OGI FIRE GRADE

## Light Trace Standard

OGF Light Trace Standard, a new, innovative achievement, is the result of a unique technology for analysis and evaluation of the light reflection of the diamond.

The OGF FIRE GRADE has been developed in the company's laboratories as a result of extensive research and has been found to be the optimum Ray-Tracing Technology. This technology has been implanted into various systems of our company.

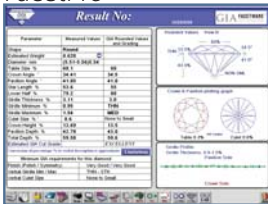
This Ray-Tracing Technology is based upon data containing a great amount of combinations made up proportionately by various factors on the diamond facet, such as: total depth, table size, crown angle, crown height, pavilion angle, pavilion depth, lower-half, star length and culet.

The use of the MEGAFire, MEGAScope or Scanox polished software is the first stage in the process of estimating the degree of light reflection contained in the diamond. In a few seconds, the system illustrates a graphic image of the upper and lower sections of the diamond and also of the amount of light reflection projected from the geometrical shape of the diamond.

If you wish to obtain excellent light refraction and reflection standards, it is possible to undertake a new evaluation of the stone until obtaining a perfect standard.

An additional option is the use of the Fire Technology found in the rough stone software, which permits maximum evaluation of the polished stone. In other words, optimum weight and optimum light reflection can be obtained during the stage when the diamond is still in a rough condition. In addition, it is possible to achieve additional cuts from the stone's profile, making it more suitable for marketing purposes.

FacetPro



FacetPro 3D Recut



OGIRough

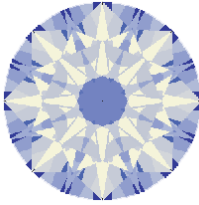


All pictures on the catalogue are for presentation only

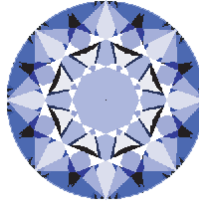
This technology highly contributes to gemological institutes as an additional tool in evaluating the stones according to their light reflection properties. These can be divided into four central categories:

## Fire Grade Standard

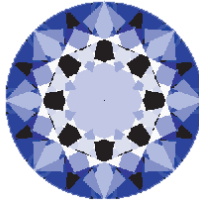
Excellent



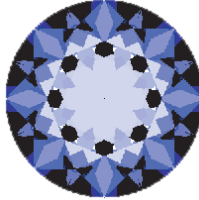
Very good



Good



Fair



## Example of one combination\* :

Fire Grade		Excellent	Very good	Good	Fair
Table depth	%	56.8	60	61.4	64.2
Table Size	%	60.0	61.1	62	58
Crown Angle	°	30	34	36	36
Crown Height	%	11.5	13.19	13.8	15.2
Pavilion Angle	°	40.9	41.9	42.4	43.2
Lower Half	%	80	70	70	70
Star Length	%	50	50	50	50
Culet	%	0.01	0.01	0.01	0.01

\* OGF contains millions of combinations.