


SPECIFIC DATA	KNISCHKA-CREATED-RUBIES
COLOR	Medium to dark violetish - red to red
CHEMICAL COMPOSITION	Al <sub>2</sub> O <sub>3</sub>
COLORING AGENT:	norm light: Cr <sub>2</sub> O <sub>3</sub> U.V. light: Fe <sub>2</sub> O <sub>3</sub> , Ti <sub>2</sub> O <sub>3</sub>
CRYSTAL SYSTEM	Ditrigonal-scalenohedral D <sub>3h</sub> - R3c
HABIT	6-sided short and long prismatic stones, barrelhabit, twin-crystals
INCLUSIONS	Zonar-structure phases, veils, wisps, typical finger-prints, no spherical gas bubbles.
PHENOMENA	partly asterism, zonar structures
SPEC. GRAVITY	4.00 ± 0.03
HARDNESS (Mohs)	9
OPTIC SIGN & CHARACTER	Uniaxial negative
REFRACTIVE INDICES BIREFRINGENCE	1.760 - 1.768 - 0.008
a:c - AXIS	1 : 1.36
DICHOISM	Red-purple/orange-red
FLUORESCENCE (366 / 254 nm)	Strong red/ medium red
ABSORPTION SPECTRUM (Å)	6942, 6928, 6680, 6592, 4764, 4750, 4685
X-RAY	Fluorescence with moderate phosphorescence
GROWTH LINES	Straight, zonal crystallized
FRACTURE	Conchoidal
	
KNISCHKA-CREATED-RUBIES	
NATURAL-BLUE-SAPPHIRE	

THE COLOUR PHOTOGRAPH BELOW,  
OF KNISCHKA-CREATED-RUBIES  
- ÉBAUCHATÉ - - FACETÉD -

WAS TAKEN BY

SHANE F. McCLURE

BY

ORDER

OF

GEMS & GEMOLOGY,

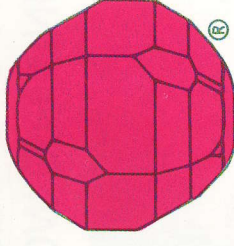
ST. MONICA,

CALIFORNIA,

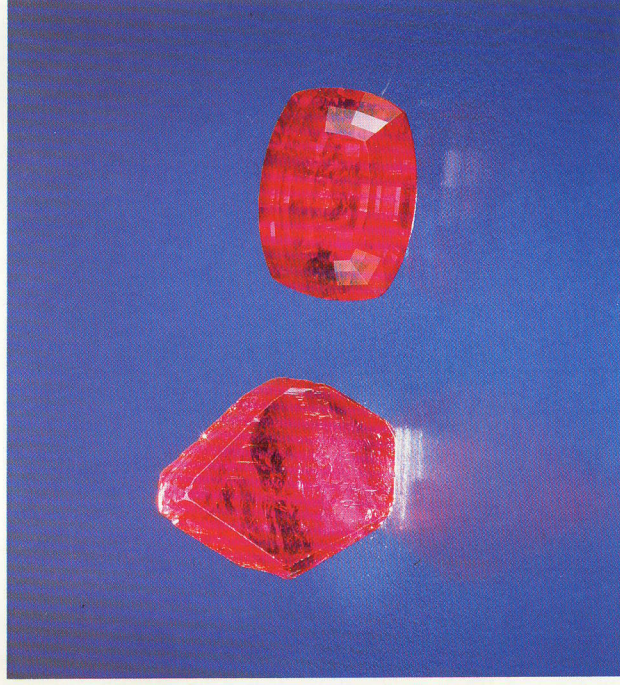
U. S. A.

KNISCHKA

KRISTALLZUCHT  
CRYSTAL GROWTH



KNISCHKA-CREATED-RUBIES  
US PATENT NR.: 4.525.171  
ÖSTERR. PATENT NR.: 382.900



RUBY CRYSTAL GROWTH

PROF. P. O. KNISCHKA

RUBY JEWELLERY WHOLESALERS AND RETAIL

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THREE MIRACLES OF CREATION:

FLOWER

BUTTERFLY

KNISCHKA-CREATED-RUBIES