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BEST KNOWN GEMSTONES

34 Diamond

42 Corundum (ruby, sapphire)

53 Chrysoberyl (alexandrite)

56 Beryl

65 Emerald

72 Spinel group: spinel, gahnite, hercynite, magnetite, chromite.

77 Topaz

83 Tourmaline group: elbaite, dravite, schorl, buergerite.

92 Spodumene

94 Scapolite

96 Zircon

99 Zoisite group: zoisite (tanzanite, thulite), clinozoisite.

101 Olivine group: olivine (chrysolite), liebenbergite, tephroite.

104 Garnets group: pyrope, almandine, spessartine, grossular, andradite (demantoid), uvarovite.

115 Quartz group: quartz, amethyst, rose quartz, chalcedony, opal, aventurine.

155 Sodalite group: sodalite, ha, yne, nosean.

156 Turquoise group: turquoise, chalcociderite, faustite, wavellite, wardite.

162 Malachite group: malachite, azurite, aurichalcite, pseudomalachite.

167 Fluorite

169 Pyrite

170 Hematite group: hematite, ilmenite.

172 Native metals group: gold, platinum, palladium, silver, copper, iron.

LESS KNOWN GEMSTONES

184 Amblygonite group: amblygonite, montebrasite.

185 Andalusite group: andalusite, kyanite, sillimanite.

188 Apatite group

191 Axinite group

193 Cancrinite group: cancrinite, vishnevite.

193 Cassiterite

195 Chrysocolla

195 Clinohumite

196 Cordierite group: cordierite, sekaninaite.

198 Cuprite

199 Danburite

200 Datolite

201 Diopase

201 Epidote

203 Goethite group: goethite, lepidocrocite.

205 Hambergite

205 Lazulite group: lazulite, scorzalite.

206 Palygorskite group: palygorskite, sepiolite.

207 Phenakite

208 Prehnite

210 Pyromorphite

210 Rutile group: rutile, anatase, brookite.

213 Scheelite

214 Sphalerite group: sphalerite, wurtzite.

216 Staurolite

217 Sugilite

218 Titanite

219 Variscite group: variscite, strengite.

220 Xonotlite

GEMSTONES FOR COLLECTORS

221 Adamite

221 Anglesite

222 Apophyllite

222 Astrophyllite

223 Barite

224 Benitoite

225 Beryllonite

225 Bornite

225 Brazilianite

226 Bromellite

226 Celestine

227 Ceruleite

227 Cerussite

228 Chalcopyrite

229 Chondrodite

229 Cinnabar

230 Crocoite

230 Diaspore

231 Euclase

232 Hemimorphite

233 Herderite

233 Howlite

233 Jeremejevite

234 Kornerupine

235 Manganotantalite

235 Mimetite

236 Monazite

237 Petalite

237 Proustite

238 Pumpellyite

238 Pyrargyrite

239 Pyroxmangite

240 Romanèchite

240 Sapphirine

240 Sinhalite

241 Smithsonite

242 Sogdianite

242 Stibiotantalite

- 242 **Taaffeite**
- 243 **Tugtupite**
- 243 **Vivianite**
- 244 **Willemite**
- 244 **Wolframite** group: wolframite, hübnerite
- 245 **Wulfenite**
- 246 **Xenotime**
- 246 **Zeolite** group: mordenite, natrolite, thomsonite, stilbite, analcime, pollucite.

MINERALS AND ROCKS

AS ORNAMENTAL STONES

- 250 **Alunite**
- 250 **Amphiboles** group: actinolite-tremolite, kaersutite, riebeckite, richterite, gedrite, nephrite.
- 258 **Brucite**
- 259 **Calcite** group: calcite, aragonite, baritocalcite, gaylussite, ikaite.
- 266 **Charoite**
- 267 **Chlorite** group (clinochlore)
- 268 **Diopside**
- 271 **Dolomite**
- 273 **Dumortierite**
- 273 **Eudialyte**
- 274 **Feldspars** family
- 274 **A. Alkali feldspars** group: microcline, orthoclase, sanidine, hyalophane
- 279 **B. Plagioclases** group: albite, oligoclase, andesine, labradorite, bytownite, anorthite.
- 284 **Gypsum** group: gypsum, anhydrite
- 286 **Jadeite**
- 289 **Jasper**
- 296 **Kaolinite** group: kaolinite, allophane, dickite, halloysite, gibbsite.
- 298 **Lazurite** group: lazurite, afghanite, bystrite.
- 302 **Ludwigite**
- 302 **Magnesite**
- 303 **Micas** group: biotite, lepidolite, muscovite.
- 305 **Nepheline**
- 307 **Obsidian**
- 311 **Pectolite**
- 312 **Piemontite**
- 312 **Pyrophyllite** group: pyrophyllite, talc
- 315 **Pyroxenes** family: augite, hedenbergite, aegirine, enstatite.
- 317 **Rhodochrosite**
- 319 **Rhodonite** group: rhodonite, bustamite, inesite
- 323 **Serpentine** group
- 325 **Siderite**
- 326 **Tektites** group: tektites, impactites, meteorites.
- 329 **Vesuvianite**
- 331 **Wollastonite**

BIOORGANIC — JEWELRY-ORNAMENTAL MATERIALS

- 332 **Pearls**: natural, cultured.

- 340 **Nacre**, shells.
- 342 **Coral**, ammonites, belemnites
- 345 **Amber**
- 350 **Resins**: modern, fossil, artificial.
- 354 **Petrified wood**, natural wood.
- 356 **Bone, ivory**.
- 359 **Horn**
- 360 **Jet**
- 362 **Fossil coals**
- 363 **Hard bitumen**

SYNTHETIC GEMSTONES

- 364 **Synthetic garnets** (rare-earth's)
- 364 **Moissanite**
- 365 **Synthetic lithium niobate**
- 365 **Phianite**
- 366 **Periclase**
- 366 **Synthetic strontium titanate**
- 367 **Ulexite**
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