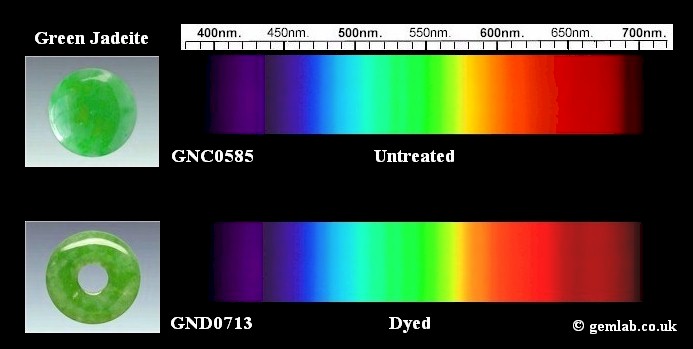
**Diffraction Spectra of**

**Green Jadeite**

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**S**

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| --- | --- |
| **Colour** | Pale to bright emerald green |
| **Cause of colour** | Chromium |
| **Optical Character** | Biaxial positive ( Polycrystalline) |
| **Pleochroism** | Not detectable |
| **Colour change** | No |
| **Spectrum; no polar, calibration in nm.** | Untreated – A strong line in violet at 437 with a weaker line at 433 due to iron. Also a line in deep red at 691 due to chromium and weaker lines at 630 and 655 may also be seen. Treated (Dyed) – Diffuse broad band centred at approximately 650 and in some specimens a weak diffuse 437. |
| **Ordinary ray** | Not applicable |
| **Extraordinary ray** | Not applicable |
| **Alpha ray** | Not detectable |
| **Beta ray** | Not detectable |
| **Gamma ray** | Not detectable |
| **Emission lines** | No |
| **Database reference** | None yet |
| **Notes** | The  diagnostic line at 437 due to iron may occur also in colourless jadeite |