

features visible at low magnification are not "clear" at high magnification

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 - *Date:* 18 Dec 2005 17:37:39 -0800
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Dear microscopist,

I think i have a relatively simple problem for the experts in optical microscopy.

I'm looking at indentation in hard ceramics [opaque material] using simple optical microscope with x10,x20,x50,x100 using yellow light, observing in reflection mode.

The problem I have is at low magnification x10 around the indents a ring like feature is visible, however at high magnification x50 or x100 the features is not visible. The lateral size of the indents ranges from 30um to 200um. measurements by different techniques (AFM) the vertical depth of indents range from 2um – expected 15ums. The ring like features ranges in height from few(10–50) nanometers to about 1ums.

I would appreciate comments, literature, references etc. explaining this effect.

since, images can not be posted, i would gladly give images for indpeth response.

thanking you for the help.

Warm regards
Sanjiv

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◇ From: rene
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