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Subject: Mixture composition in media file.

Posted by [Lia Lavezzi](#) on Wed, 16 Feb 2011 15:33:10 GMT

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Hi pandarooters,

I have a question on the definition of a mixture in media\_pnd.geo.

To define a mixture you can use two ways:

- 1) give the number of atoms,
- 2) give the percentages of each element.

Concerning the second option, the WMAT values which indicate these percentages should be "weights WMAT of each component in a mixture".

My question is: shouldn't these be the percentages computed on the mass (and not on the volume)? So if you have the composition for a gas by volume percentages, these should be converted to the mass percentages and these last ones must be used as WMAT... is this correct?

I ask this because digging in the code it seems to me that they really must be % on the weight, but in the media file we often use the % on volume, so I cannot figure out which one is correct...

Thank you in advance,  
Lia.