Subject: Re: Doping?
Posted by Wayne Parham on Wed, 20 Oct 2004 02:52:20 GMT
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Doping a speaker cone will add mass, changing its electro-mechanical parameters. It will also stiffen the cone, making its breakup mode behavior much different. The mass change will modify how the speaker behaves at low frequencies, and it is easy to model and predict the pistonic behavior. But what isn't so easy to predict is how the modification will make the speaker act at high frequencies, where the treatment of the paper will alter the cone's flexibility and the way ripples align on its surface. You might reduce a breakup mode resonance, but you might increase it instead. Or you might just shift it and create others in its place.