Subject: Looking for a color code
Posted by PakProtector on Thu, 17 Feb 2005 23:57:20 GMT
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Hey-Hey!!!,I am hunting a colour coding sheet for tantalum anode transmitting valves. Some of the data sheets I have read say something like, "consult the colour code for plate dissipation analysis". They speak of a red-yellow colour when the plates reach max dissipation.Anybody have such a thing? or do I have to guess with valves old enough to be my grandfather?regards,Douglas

Subject: Re: Looking for a color code
Posted by Wayne Parham on Fri, 18 Feb 2005 03:38:39 GMT
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If Eric Barbour doesn't see and reply to this today or tomorrow, you might write to him directly. If you don't have his E-Mail address, write to me and I'll forward it to him.

Subject: Re: Looking for a color code
Posted by metasonix on Fri, 18 Feb 2005 07:06:12 GMT
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dayam....that's one of the most obscure items of tube documentation in the world. Have seen one that Eimac published more than 50 years ago, but don't have a copy. The color printing was kind of primitive and the colors were questionable anyway.I could ask on the Tube Collector's Assoc. maling list if you wish.

Subject: as with anything else Tube...
Posted by PakProtector on Fri, 18 Feb 2005 13:05:27 GMT
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The journey is a lot of the fun. I figured it was obscure. *Most* obscure is an accomplishment for sure.I have been looking at some of the old TX triodes for a linestage and/or driver valve in a high-voltage amp. Tantalum plates seem to be a neat idea if I can get a few of them w/o breaking the bank.regards,Douglas

Subject: Re: as with anything else Tube...
Posted by Damir on Fri, 18 Feb 2005 17:39:07 GMT
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I have (in one of my Mechanical eng. -books) color codes for heated steel (from red, orange, etc.) depends of the temperature. Probably somewhere (Mechanical engineering/Materials books) exists list like that for the Tantalum, and from the colour of the heated Ta you can guess (optimal) working temperature / anode dissipation, if I`m correct?However, try your college connections:-). I can (tommorow) ask my friend, he`s the assistent on the College of the engineering (dr.sci), specialist for the metals.

Subject: D-Oh!!!
Posted by PakProtector on Fri, 18 Feb 2005 19:23:24 GMT
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The blinders got me again. I have one of them too. And it is printed in fairly new ink and on good paper too. Can't be all that far off. Further thought yeilds the additional conclusion: I am not going to run them hard in the first app I put them to, so I'll probably be able to put the old ME Materials book to good use.thanks! good thing I was not looking for poisonous snakes....I'd have been bitten.regards,Douglas

Subject: Re: D-Oh!!!
Posted by Damir on Fri, 18 Feb 2005 21:04:09 GMT
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I was suprised, too - that I remembered something of the things I studied 20 years ago...
White Light / White Heat

Subject: Re: D-Oh!
Posted by Poindexter on Sat, 19 Feb 2005 03:39:51 GMT
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Doug, these are called 'black body radiation spectra', and as far as I know, do not depend on the material radiating. I studied this stuff when I was making knives and swords and such, and got pretty good at judging temperature by color. If I remember, dull red is about 900°, full red is about 1100°, red-orange is about 1200-1300°, and your golden orange is up at about 1400-1500°; these all in fahrenheit. Keep your lovely devices in the orange range, and you ain't

gonna be a sad hippie.Yer pal, P.

Subject: Re: D-Oh!
Posted by PakProtector on Sun, 20 Feb 2005 03:58:59 GMT
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That anode must be something special to operate at that Temp. Not to mention being its own getter. I have yet to find any, I may have to put in a weeks worth of work in a big house of tubes to find any(and w/no guarantees). Time will tell, and there are other cool things to play with too.regards,Douglas

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Subject: It's standard colour K.
Posted by Mark Kelly on Fri, 01 Apr 2005 00:34:48 GMT
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It's not that obscure. Look up a chart of colour K or black body radiation temperature. Here's one I found on line:
Colour teperature correlation for human eye.
