Nano-Cloth Studies - Series 1

Posted by wickededge - 22 Aug 2012 14:52

Finally started today with some of the nano-cloth studies. I want to thank Ken Schwartz for generously providing enough nano-cloth strops mounted to aluminum blanks to conduct the study.

I started by preparing a bunch of samples with super polished bevels so we would be able to clearly see the effects of various abrasives. Here is the first sample polished clean (or clean enough):

I then used various abrasives on the nano-cloth, hoping to isolate pure abrasives, restoring the edge back to smooth in between each iteration.

Here they are in ascending grit size, fine to coarse:

.125um CBN

.5um CBN

.5um Diamond

More to come...

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Re: Nano-Cloth Studies - Series 1

Posted by ApexGS - 23 Aug 2012 13:23

This is some really cool stuff. Now I'm up in the air about my first round of upgrades and addons to my kit.

Is there a good rule of thumb for which level of abrasive is the entry level for the nano-cloth giving optimal results, or can you use just about anything on them equally well? Would both kangaroo and nano-cloth perform equally well for the coarser polish?

Perhaps the next comparison could be showing the same compound on each type of strop? It would be really interesting to see how the standard pro kit 5/3.5 micron diamond pastes look on each leather type and nano-cloth. No rest for the Wicked (Edge) I suppose

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Re: Nano-Cloth Studies - Series 1

Posted by wickededge - 23 Aug 2012 15:44

Good questions. I think the kangaroo is best used in the finer ranges, maybe 5 microns and lower. I haven't done any testing yet with the kangaroo at coarser grits, but off the top of my head, I think it wouldn't be the best use of the roo's awesome burnishing properties. I think the nano-cloth should be appropriate for any grit, especially when you don't want burnishing and want the micro teeth to extend all the way to the edge.

ApexGS wrote:

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Re: Nano-Cloth Studies - Series 1
Posted by ApexGS - 23 Aug 2012 20:21

Thanks for the info, Clay. I'm pondering my first bundle of goodies for the kit, possibly including a set of each or just jumping to two nano-cloth sets since there's some price difference. When you're on a budget a few bucks counts

All this info on the nano-cloth has me leaning toward them, since I can certainly pick up more later!

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Re: Nano-Cloth Studies - Series 1
Posted by razoredgeknives - 24 Aug 2012 00:14

Very interesting Clay. I find Mark's observations to be on point... hopefully we can figure out what's going on! Thanks for spending the time on the different experiments... you have the dream job! lol, how does your wife ever put up w/ you?

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Re: Nano-Cloth Studies - Series 1
Posted by wickededge - 24 Aug 2012 10:14

She hardly does

razoredgeknives wrote:

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Re: Nano-Cloth Studies - Series 1
Posted by AnthonyYan - 25 Aug 2012 03:05

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wickededge wrote:

I started by preparing a bunch of samples with super polished bevels so we would be able to clearly see the effects of various abrasives.

Hi Clay,

Fascinating pictures! I'm curious, how did you "super polish" the edge to begin with?

Sincerely,

--Lagrangian

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