



Tanja Horn <hornt@cua.edu>

tungsten

Igor Strakovsky <igor@gwu.edu>

Tue, Jan 22, 2019 at 8:09 PM

Reply-To: igor@gwu.edu

To: Tanja Horn <hornt@cua.edu>, Tanja Horn <hornt@jlab.org>, David Hamilton <David.J.Hamilton@glasgow.ac.uk>, Jixie Zhang <jxie@jlab.org>, Rolf Ent <ent@jlab.org>, Bogdan Wojtsekhowski <bogdanw@jlab.org>, Gabriel Niculescu <gabriel@jlab.org>, Pavel Degtiarenko <pavel@jlab.org>, Donal Day <dbd@virginia.edu>, Igor Strakovsky <igor@gwu.edu>, Dustin Keller <dustin@jlab.org>, Thia <keppel@jlab.org>, Eugene Chudakov <gen@jlab.org>

Dear All,

I had conversations with

Scott Knoll <sknoll@anania.biz> Cell: 207-712-1500

and

John L. Johnson <jjohnson@elmettech.com> [technical expert]

at Elemet Technology

1560 Lisbon Street

Lewiston, ME 04240

Phone: 800-343-8008; 207-333-6100

Fax: 207-786-8924

As up to November 20th, 2018, the bottom line for the high density is...

For the 17.5 g/cm³ class 2 blocks they have has an example part number 053599080787 which uses 20 kgs of powder and has a sintered size around 2.3" x 5" x 6". The cost includes grinding the thickness to 2.2" but not the width & length. This is priced at \$1587 based on current Tungsten. Precision grinding the width and length would add another \$115 or so.

On a per KG basis this translates to around \$79-\$85 per kg for a shape in this size range. If we designed for a 40 kg larger part the cost would probably come down a bit.

So for our analysis they would assume we could design interwoven pieces in the \$70 to \$85 /kg range depending on weight, size and tolerances.

That is all by now,

Igor

Igor Strakovsky, SAID INS The George Washington University
Tel: 571-553-8344(VC), 202-994-4742(FB), Skype: igors1945_2,
Cell: 703-728-5627, Emails: igor@gwu.edu, igor@jlab.org