

U. S. DEPARTMENT OF COMMERCE

NATIONAL BUREAU OF STANDARDS

WASHINGTON

ADDRESS REPLY TO  
NATIONAL BUREAU OF STANDARDS

IN YOUR REPLY  
REFER TO FILE

4.1

January 16, 1948

Mr. L. A. Wilson,  
Gunlock, Utah

Dear Mr. Wilson:

In reply to your card of December 31, addressed to Mr. Knoop, there is enclosed RP 1220 with this Bureau's microhardness apparatus and hardness scale. Table 6 gives the hardness numbers for materials of the Mohs scale. Also enclosed is a reprint giving the hardness numbers of metal layers. For osmium pivots we obtained a number of about 850.

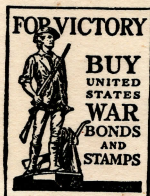
If diamond does not indent your material and if material cuts silicon carbide, it must be very hard. If you will send me a few samples I will make tests with our apparatus which should place it on the hardness scale.

Very truly yours,

*C. G. Peters*

C. G. Peters, Chief,  
Interferometry Unit,  
Atomic Physics Division

Enclosure



DEPARTMENT OF COMMERCE  
NATIONAL BUREAU OF STANDARDS  
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID  
PAYMENT OF POSTAGE, \$300  
(PMGC)

Mr. L. A. Wilson,  
Gunlock,  
Utah