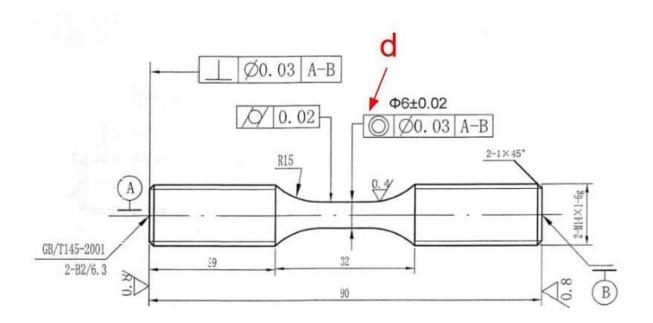


TITLE: Trial polishing

1. Cylindrical specimen characteristics

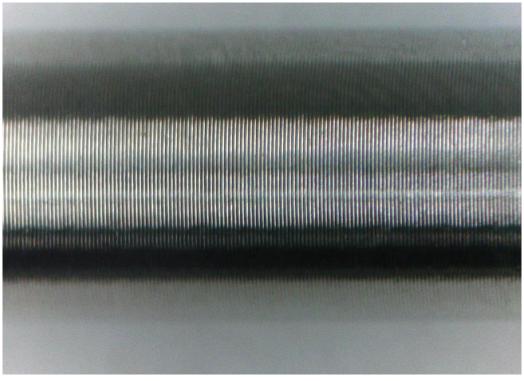


Material: Specimen 1: Ti-6Al-4V Specimen 2: Al 7075

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Pic. 1. Specimen 1 "d" - before polishing

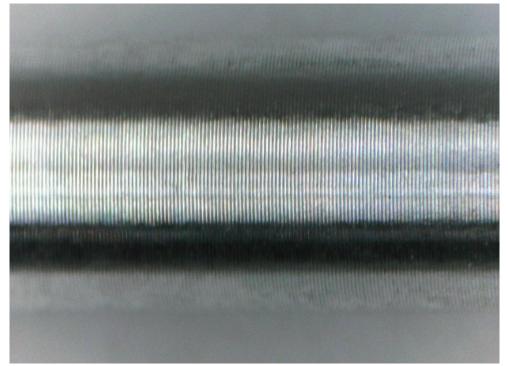


Pic. 2. Specimen 1 surface - before polishing

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Pic. 3. Specimen 2 "d" - before polishing



Pic. 4. Specimen 2 surface - before polishing

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2. Specimen 1 polishing process a. STEP 1

| Tab.1. Spe | cimen 1. | Step 1 | polishina |
|--------------|----------|--------|-----------|
| 1 up. 1. Opo | 0 | Olop 1 | ponormig |

| STEP 1 Sandpaper grit | P180 |
|-----------------------|------------------|
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 14 |
| D dimension | 6.03 mm |
| Material removal | 0.015 mm/surface |



Pic.5. SPEC. 1, d - after step 1

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b. STEP 2

Tab.2. Specimen 1, Step 2 polishing

| STEP 1 Sandpaper grit | P600 |
|-----------------------|-------------|
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 8 |
| D dimension | 6.015 mm |
| Material removal | 0.0075 mm |

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Pic.6. SPEC. 1, d - after step 2

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a. STEP 3

Tab.3. Specimen 1, Step 3 polishing

| STEP 1 Sandpaper grit | P1200 |
|-----------------------|-------------|
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 4 |
| D dimension | 6.010 mm |
| Material removal | 0.0025 mm |



Pic.7. SPEC. 1, d - after step 3

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a. STEP 4

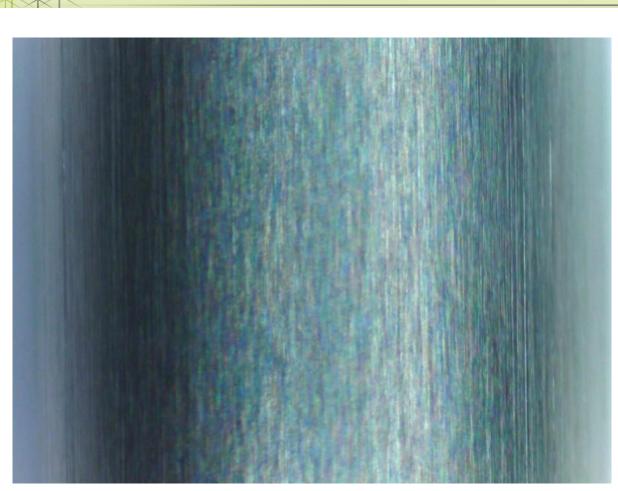
Tab.4. Specimen 1, Step 4 polishing

| STEP 1 Sandpaper grit | P2000 |
|-----------------------|-------------|
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 8 |



Pic.8. Specimen 1 after step 4

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Pic.9. Specimen 1 surface after step 4 - microscope photo

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3. Specimen 2 polishing process

According to our measurements, Specimen 2 had minor inaccuracies in its diameter. It was slightly oval in shape, with a difference of 0.012 mm between measurements taken at 90-degree rotations. However, this may not be entirely accurate, as the measurements were taken manually using a micrometer.

c. STEP 1

Tab.5. Spec 2, Step 1 polishing

| STEP 1 Sandpaper grit | P320 |
|-----------------------|--------------------------|
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 4 |
| D dimension | approx. 6.026 mm |
| Material removal | approx. 0.011 mm/surface |



Pic.10. SPEC. 2, d - after step 1

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a. STEP 2

| Tab.6. Spec 2, Step 2 polishing | |
|---------------------------------|---------------------------|
| STEP 2 Sandpaper grit | P800 |
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 4 |
| D dimension | approx. 6.017 mm |
| Material removal | approx. 0.0045 mm/surface |



Pic.11. SPEC. 2, d - after step 2

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a. STEP 3

| Tab.7. | Spec 2, | Step 3 | polishing | |
|--------|---------|--------|-----------|--|
| | | | | |

| STEP 2 Sandpaper grit | P1200 |
|-----------------------|---------------------------|
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 4 |
| D dimension | approx. 6.012 mm |
| Material removal | approx. 0.0025 mm/surface |

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Pic.12. SPEC. 2, d - after step 3

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a. STEP 4

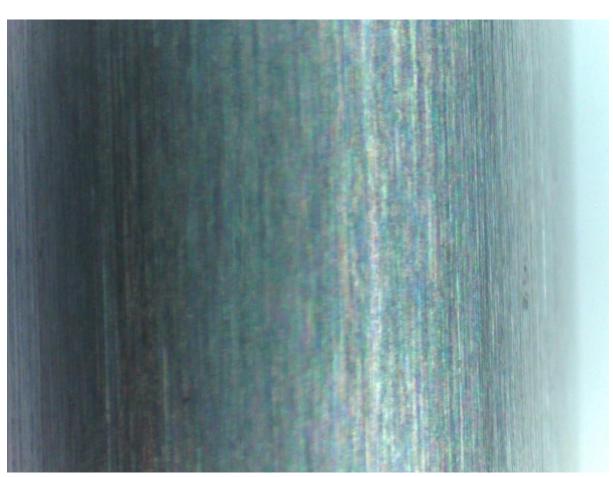
Tab.8. Spec 2, Step 4 polishing

| STEP 2 Sandpaper grit | P2000 |
|-----------------------|-------------|
| Contact Force | 10 N |
| Polishing Speed | 4200 mm/min |
| Full rotations | 4 |



Pic.14. Specimen 2 after step 4

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Pic.15. Specimen 2 surface after step 4 - microscope photo

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