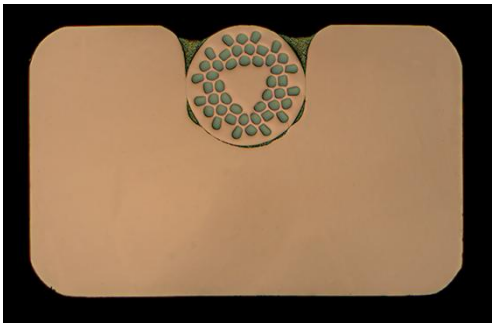
NbTi for MRI application

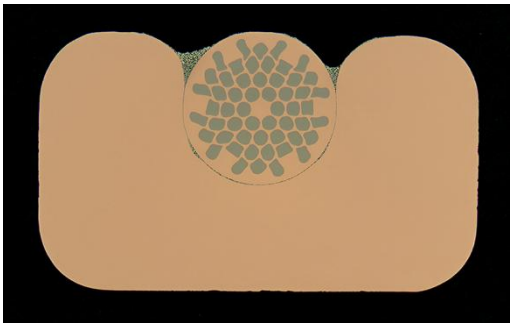
- High Cu ratio strand wires

Wire in Channel

a x b = 1.10 x 1.70 mm² to 2.15 x 4.25 mm²

Cu : NbTi ratio 5 to 20

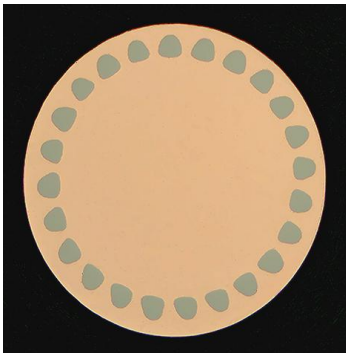


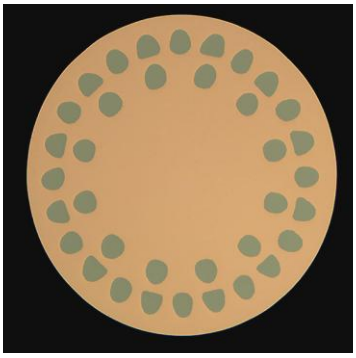


Monolith wires

Number of filaments 17 to 36

Cu : NbTi ratio 4 to 10





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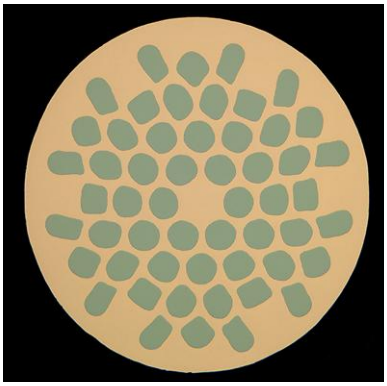
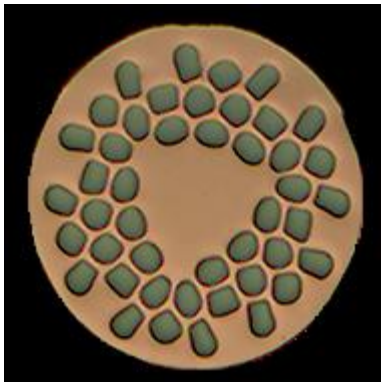
NbTi for NMR and other applications

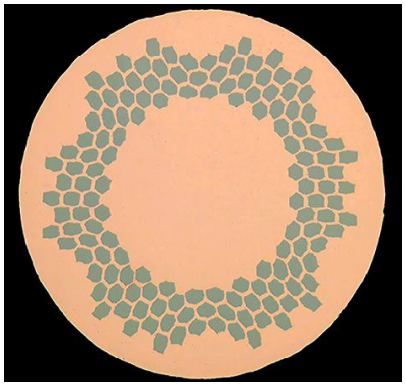
Low Cu ratio strand wires

Monolith wires

- Number of filaments: 45 to 150
- Cu : NbTi ratio: 1.3 to 2.6







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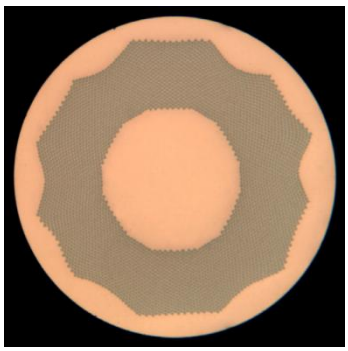
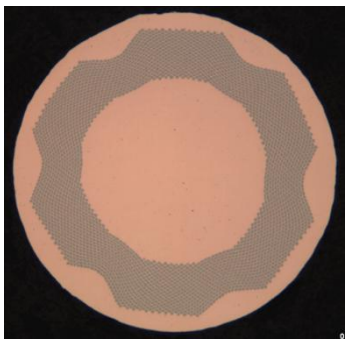
NbTi for Fusion application

Fine filaments PF wires



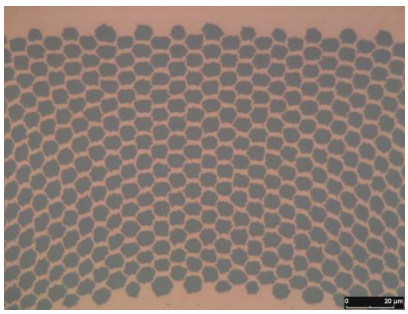
Wire type 1

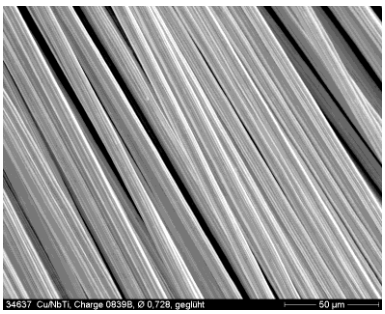
- Cu:NbTi ≈ 1.65
- Number of filaments 4185
- wire diameter 0.73 mm
- Filament diameter ≈ 8 µm



Wire type 2

- Cu:NbTi ≈ 2.35
- Number of filaments 3282
- wire diameter 0.73 mm
- Filament diameter ≈ 8 µm





Jc_{NbTi} ≈ 3100 A/mm² @ 5T, 4.2K

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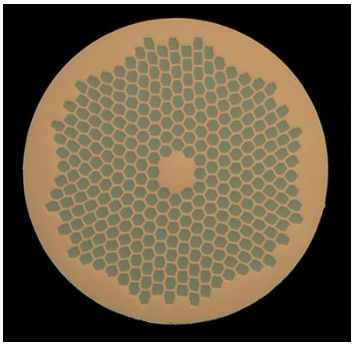
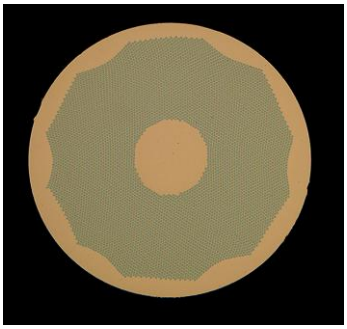
NbTi for High Energy Physics application

Special strand wires



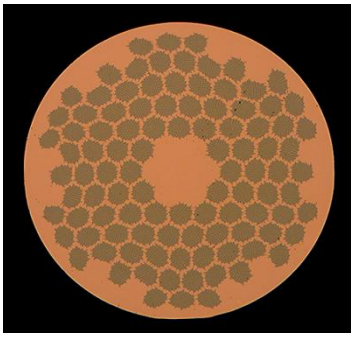
ATLAS strand

- F306 Ø 1.30 mm
- Cu : NbTi = 1.15
- Filament diameter ≈ 50 µm
- Ic = 1700 A @ 5 T; 4.2 K



LHC MQY quadrupole strand

- F6360 Ø 0.735 mm
- Cu : NbTi =1.25
- Filament diameter ≈ 6 µm
- Ic = 550 A @ 5 T; 4.2 K



LHC dipole strand

- F8670 Ø 1.065 mm
- Cu : NbTi = 1.65
- Filament diameter ≈ 7 µm
- Ic = 540 A @ 7 T; 4.2 K

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