Supplementary Material:

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Figure S2: HC12 tensioned sample at x2k magnification
Figure S3: HC 40 tensioned sample at x250 magnification
Figure S4: HC 40 tensioned sample at x1k magnification
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Figure S6: S+100 sample tensioned at x2k magnification
Figure S7: S+150 tensioned sample at x30 magnification
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Figure S12: S 50 tensioned sample at x2k magnification
Figure S13: AFM profile of a healthy sample of S 120
Figure S14: AFM profile of an S120 sample after 10 wash cycles and tension testing

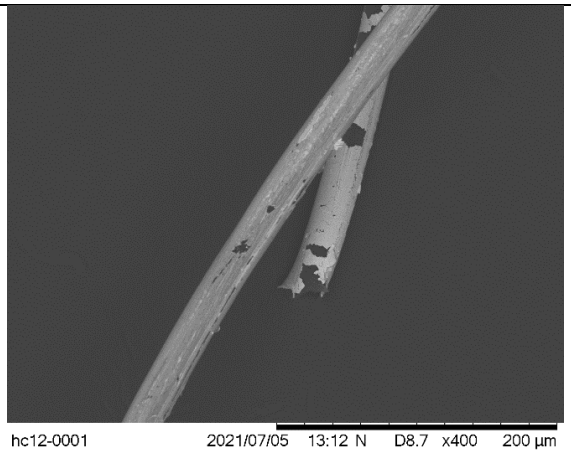


Figure S1: HC 12 tensioned sample at x400 magnification

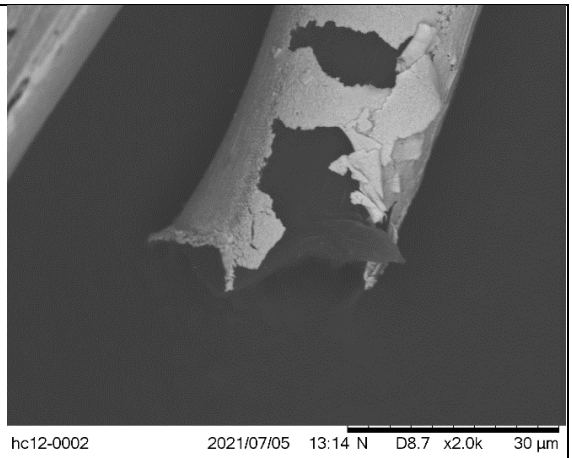


Figure S2: HC12 tensioned sample at x2k magnification

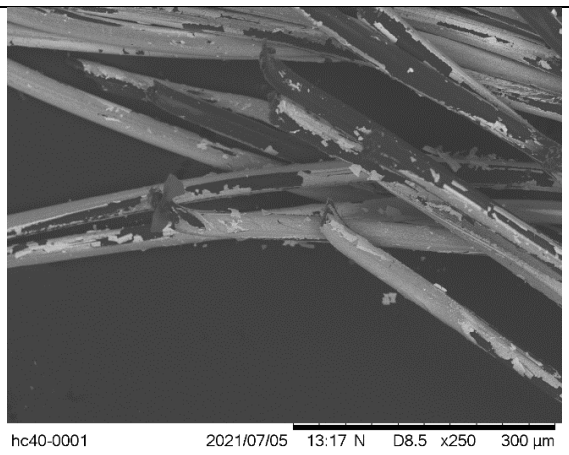


Figure S3: HC 40 tensioned sample at x250 magnification

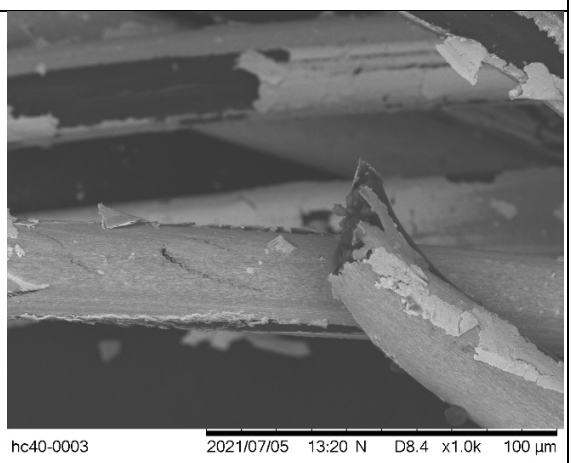


Figure S4: HC 40 tensioned sample at x1k magnification

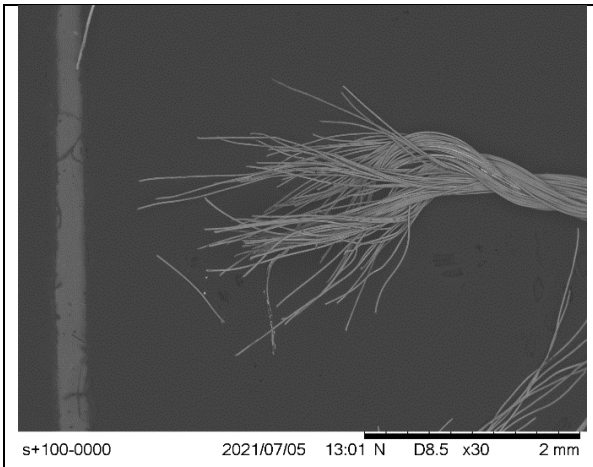


Figure S5: S+ 100 tensioned sample at x30 magnification

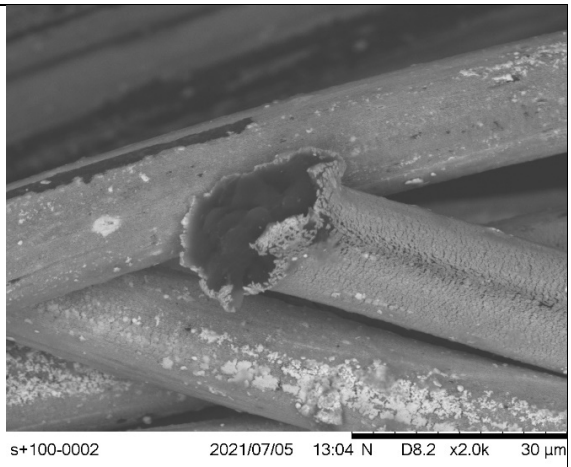


Figure S6: S+100 sample tensioned at x2k magnification

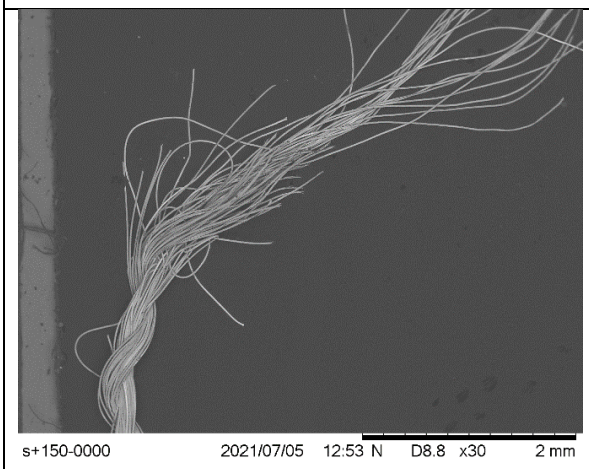


Figure S7: S+150 tensioned sample at x30 magnification

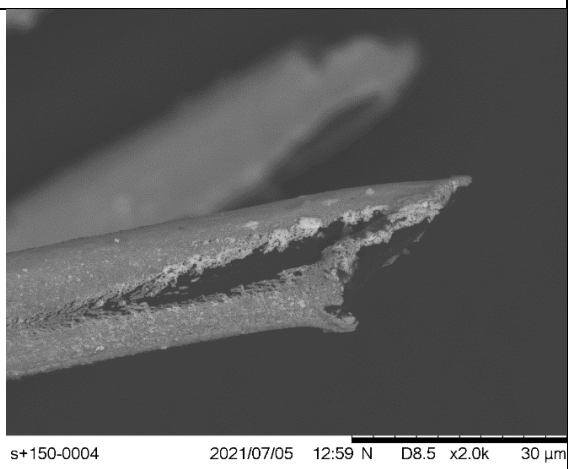


Figure S8: S+150 tensioned sample at x2k magnification

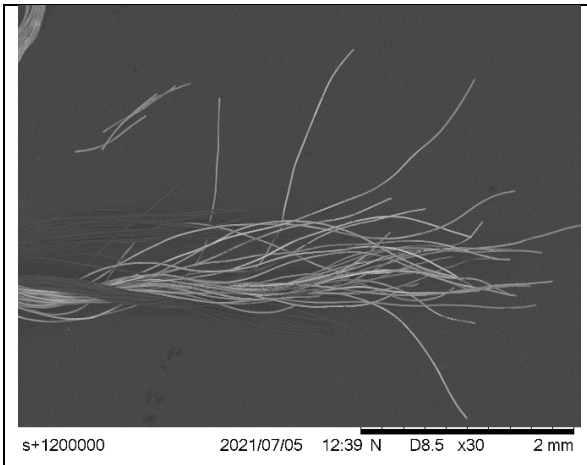


Figure S9: S 120 tensioned sample at x30 magnification

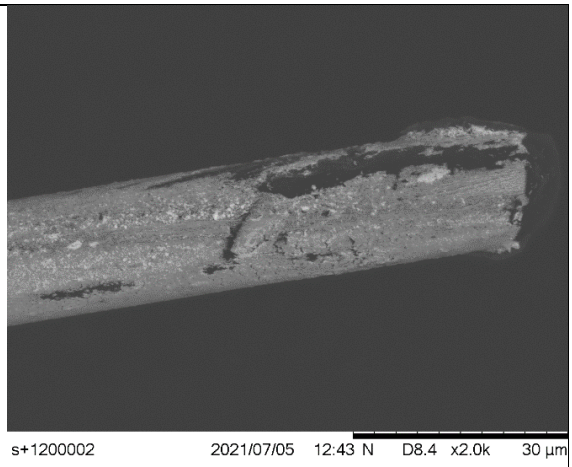


Figure S10: S 120 tensioned sample at x2k magnification

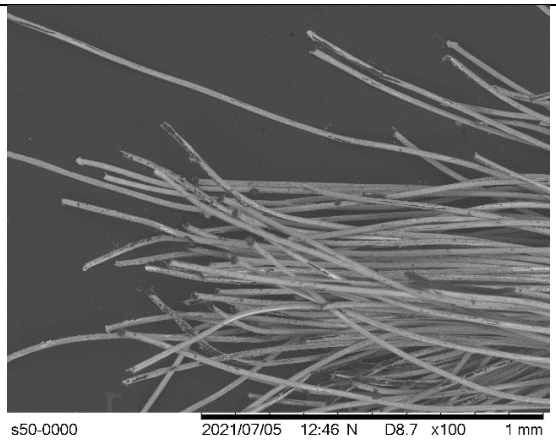


Figure S11: S 50 tensioned sample at x100 magnification



Figure S12: S 50 tensioned sample at x2k magnification

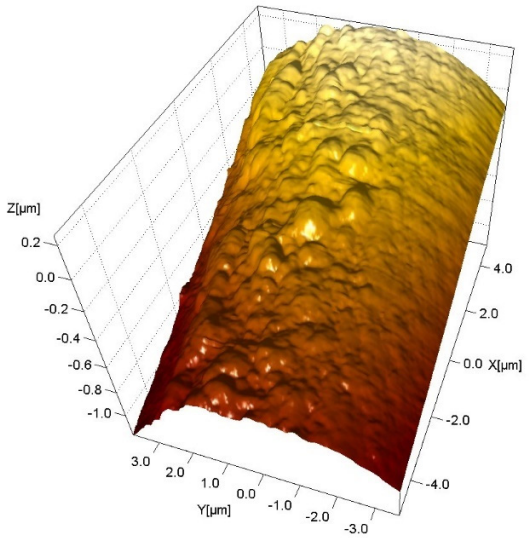


Figure S13: AFM profile of a healthy sample of S 120

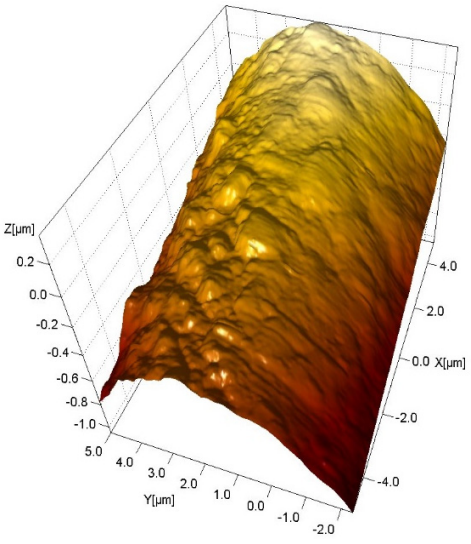


Figure S14: AFM profile of an S120 sample after 10 wash cycles and tension testing