

Supplementary Information

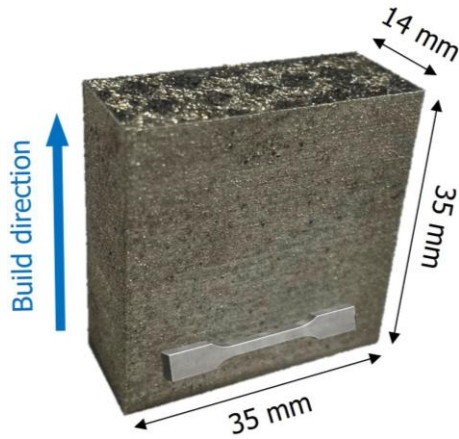


Figure S1 Image of the LPBF block where the tensile direction is added.

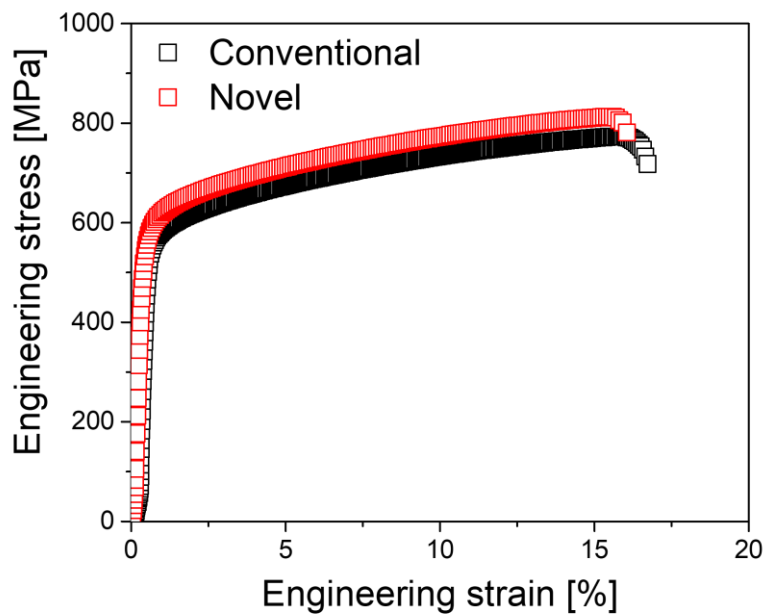


Figure S2 Representative engineering stress-engineering strain curves obtained from tensile tests using conventional and novel geometry specimens.

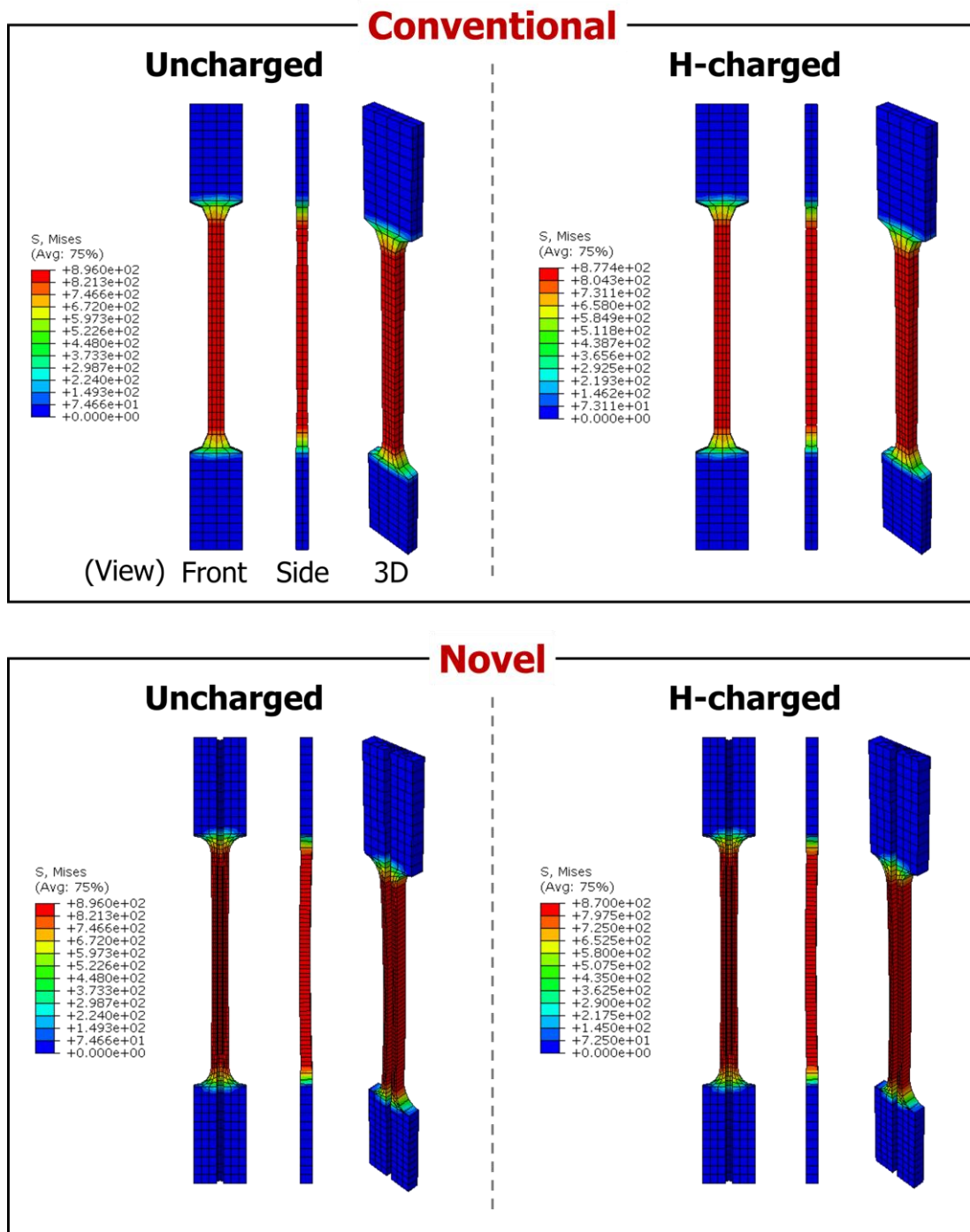


Figure S3 The results from finite element analysis (using ABAQUS 2025) for the von Mises stress distributions in the conventional and novel tensile specimens in uncharged and H-charged states.