

X-energy Needs

- Nuclear grade graphite:
 - Limited irradiation data for X-energy temperature and fluence range – AGC temperatures range from 585°C to 1100°C (Xe-100 temperature range between 350°C and 750°C)
 - No US supplier currently active in nuclear grade graphite
- High Temperature Beryllium Data:
 - Micro reactors with fixed fuel cycles could benefit from Beryllium reflectors – Limited irradiation data publicly available for Beryllium in the 350°C to 800°C range
- Neutronics Analysis:
 - Limited neutronics code verification and validation for use with TRISO based fuels – DOE Labs could provide expertise and resources start with neutronics code V&V for TRISO based fuel (fixed and moving fuel designs)

