



Orano

UF₆ Cylinders and Life Cycle Services

**FABRICATION, CERTIFICATION, MAINTENANCE,
AND DISPOSAL OF UF₆ CYLINDERS**

Cylinders for depleted, natural, or enriched uranium hexafluoride (UF₆)

48Y: Natural or Depleted UF₆

30B: up to 5.0% ²³⁵U

30B-10: up to 10.0% ²³⁵U (LEU+)

30B-20: up to 20.0% ²³⁵U (HALEU)

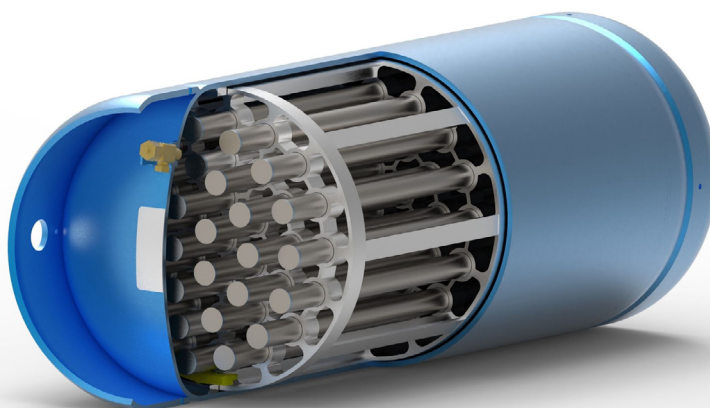
ALL CYLINDERS ADHERE
TO AMERICAN NATIONAL
STANDARDS INSTITUTE (ANSI)
N14.1 AND ARE BUILT IN
ACCORDANCE WITH THE NQA-1
AND 10CFR71 SUBPART H
REQUIREMENTS



48Y cylinders



30B-X cylinder



Cutaway of 30B-X cylinder

Orano: the standard for Reliable and Repeatable Transportation Services

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Learn more
about our
transport casks.



Standards:

- **ASME NQA-1:** Quality Assurance Requirements for Nuclear Facility Application
- **ASME Section III:** Rules for Construction of Nuclear Facility Components
- **ASME Section VIII:** Rules for Construction of Pressure Vessels
- **GB/T11806-2019:** Regulations for the Safe Transport of Radioactive Materials
- **ANSI N14.1-2023:** Nuclear Materials - UF₆ - Packages for Transport
- **ISO7195-2020:** Nuclear energy - Packages for the transport of UF₆
- **ASME:** U stamp

Orano Cylinder Service Facility



Our UF₆ Cylinder Service Center (UCSC) in Kevil, Kentucky focuses on the life cycle of cylinders:

- Engineering
- Storage
- Cleaning
- Recertification
- Disposal

Complete package maintenance for all types of UF₆ cylinders, including 48-X, Y, G, O, etc; 30A, B; and 5A, B.

With a focus on compliance, we work under an NRC-approved 10 CFR Part 71 Subpart H Quality Assurance Program, which is also designed and administered to meet the requirements of ASME NQA-1, 10 CFR Part 72 Subpart G, and 10 CFR Part 50 Appendix B.

Transport Packages (Overpacks)

The transportation of uranium hexafluoride (UF₆) is essential for the nuclear fuel cycle.

Orano provides the newest transport packages for enriched UF₆, the **DN30**, which offers increased protection, in accordance with the most current transport regulations. We also supply the **UX30** package - the industry workhorse for the UF₆ supply chain, as well as the **Kevil Kougar** transport package for non-compliant 48" cylinders.

UX30



DN30 overpack - closed and open



Getting from Point A to Point B

From conversion plants to enrichment plants to fuel fabricators and waste disposal sites...via rail, road, water - our network of experts provide competitive and innovative logistical solutions for UF₆ cylinder transportation.