

- (i) Handling procedures and packaging criteria must be in accordance with DOE Report ORO-651 or ANSI N14.1; and
- (ii) Quantities of uranium hexafluoride are authorized as shown in table 6, with each package assigned a minimum transport index as also shown:

TABLE 6—AUTHORIZED QUANTITIES OF URANIUM HEXAFLUORIDE

Protective overpack specification number	Maximum inner cylinder diameter		Maximum weight of UF6 contents		Maximum U-235 enrichment (weight/percent)	Minimum transport index
	Cm	Inches	Kilograms	Pounds		
20PF-1	12.7	5	25	55	100.0	0.1
20PF-2	20.3	8	116	255	12.5	0.4
20PF-3	30.5	12	209	460	5.0	1.1
21PF-1A ¹ or 21PF-1B ¹	² 76.0	² 30	2,250	4,950	5.0	5.0
21PF-1A ¹ or 21PF-1B ¹	³ 76.0	³ 30	2,282	5,020	5.0	5.0
21PF-2 ¹	² 76.0	² 30	2,250	4,950	5.0	5.0
21PF-2 ¹	³ 76.0	³ 30	2,282	5,020	5.0	5.0

¹ For 76 cm (30 in) cylinders, the maximum H/U atomic ratio is 0.088.
² Model 30A inner cylinder (reference ORO-651).
³ Model 30B inner cylinder (reference ORO-651).

[Amdt. 173-244, 60 FR 50307, Sept. 28, 1995, as amended by Amdt. 173-244, 61 FR 20750, May 8, 1996; 65 FR 58630, Sept. 29, 2000; 66 FR 45380, Aug. 28, 2001; 67 FR 61014, Sept. 27, 2002]

§ 173.418 Authorized packages—pyrophoric Class 7 (radioactive) materials.

Pyrophoric Class 7 (radioactive) materials, as referenced in the §172.101 table of this subchapter, in quantities not exceeding A₂ per package must be transported in DOT Specification 7A packagings constructed of materials that will not react with, nor be decomposed by, the contents. Contents of the package must be—

- (a) In solid form and must not be fissile unless excepted by §173.453;
- (b) Contained in sealed and corrosion resistant receptacles with positive closures (friction or slip-fit covers or stoppers are not authorized);
- (c) Free of water and contaminants that would increase the reactivity of the material; and
- (d) Inerted to prevent self-ignition during transport by either—
 - (1) Mixing with large volumes of inerting materials, such as graphite, dry sand, or other suitable inerting material, or blended into a matrix of hardened concrete; or
 - (2) Filling the innermost receptacle with an appropriate inert gas or liquid.

§ 173.419 Authorized packages—oxidizing Class 7 (radioactive) materials.

(a) An oxidizing Class 7 (radioactive) material, as referenced in the §172.101 table of this subchapter, is authorized in quantities not exceeding an A₂ per package, in a DOT Specification 7A package provided that—

- (1) The contents are:
 - (i) Not fissile;
 - (ii) Packed in inside packagings of glass, metal or compatible plastic; and
 - (iii) Cushioned with a material that will not react with the contents; and
- (2) The outside packaging is made of wood, metal, or plastic.
- (b) The package must be capable of meeting the applicable test requirements of §173.465 without leakage of contents.
- (c) For shipment by air, the maximum quantity in any package may not exceed 11.3 kg (25 pounds).

[Amdt. 173-244, 60 FR 50307, Sept. 28, 1995, as amended at 66 FR 45380, Aug. 28, 2001]

§ 173.420 Uranium hexafluoride (fissile, fissile excepted and non-fissile).

(a) In addition to any other applicable requirements of this subchapter, uranium hexafluoride, fissile, fissile excepted or non-fissile, must be offered for transportation as follows: