Table 10.2 Comparison of Fuel Element Characteristics		
	Thermal Reactor	**Fast Reactor**
Fuel	**UO_2**	**$(U,Pu)O_{1.96}$**
Fuel Pellet Density (% of theoretical)	**92**	**90**
Max. fuel centerline temperature (overpower condition)°C	**2450**	**2800**
Cladding	**Zircaloy-4**	**316 Stainless Steel**
Max. cladding mid-wall temperature °C	**380**	**660**
Coolant temperature, °C	**H_2O, 280-320**	**Na, 470-650**
Maximum rod linear power, W/cm	**620**	**550**
Fuel wrapper assembly	**Square, 30x30**	**Hexagonal, 13 cm across flats**
# of pins in assembly	**200**	**220**
Fuel-rod outside diameter, mm	**10.7**	**6.3**
Cladding thickness, mm	**0.6**	**0.4**
Initial fuel-cladding radial gap, mm	**0.08**	**0.07**
Length of fueled portion, cm	**365**	**90**