

# Spectralon® Diffuse Fluorescence Materials

Highly stable and durable



## Reproducible fluorescence

Spectralon fluorescence materials aid in the development of optically brightened materials such as paper and textiles and are widely used in the cosmetic industry. Unlike disposable paper fluorescence standards, Labsphere fluorescence pucks provide highly stable, reproducible fluorescence reflectance over a long period of time in varying conditions.

Spectralon provides the ideal matrix for inorganic fluors which are photochemically stable when compared to their organic counterparts. The stability of the inorganic fluors, when combined with the durability of Spectralon, result in rugged, long-lasting fluorescence materials for both field and laboratory use.

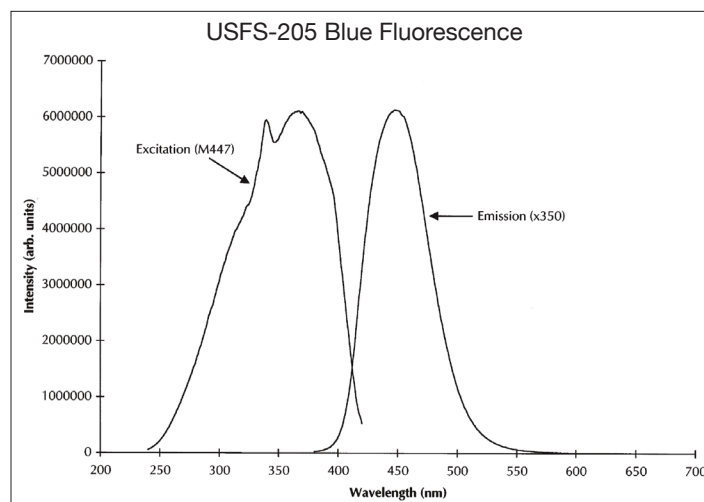
Labsphere's fluorescence pucks are sold individually, in sets of three identical fluors, or as a set of the five fluors described. Each puck is housed in a durable delrin holder with a protective cover and is uncalibrated.

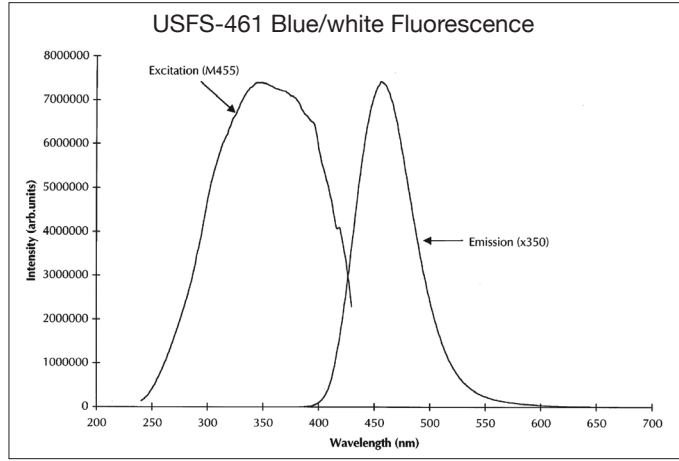
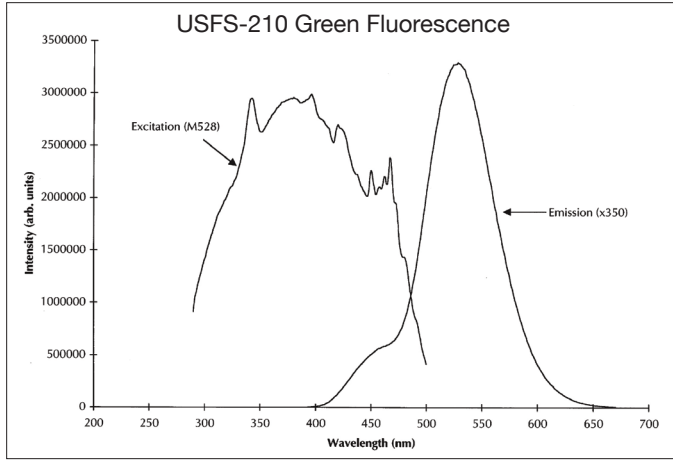
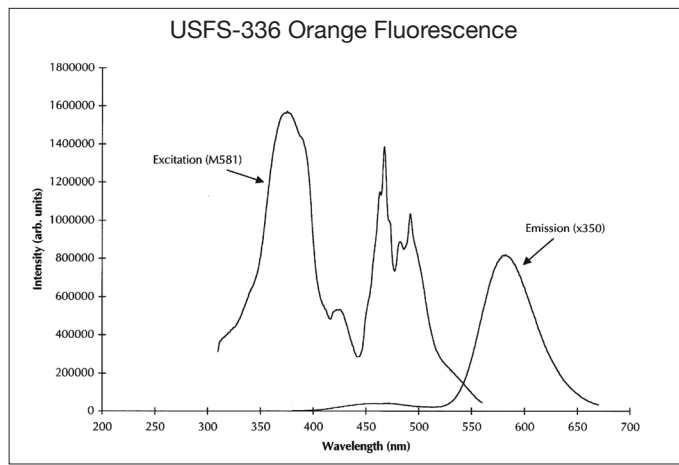
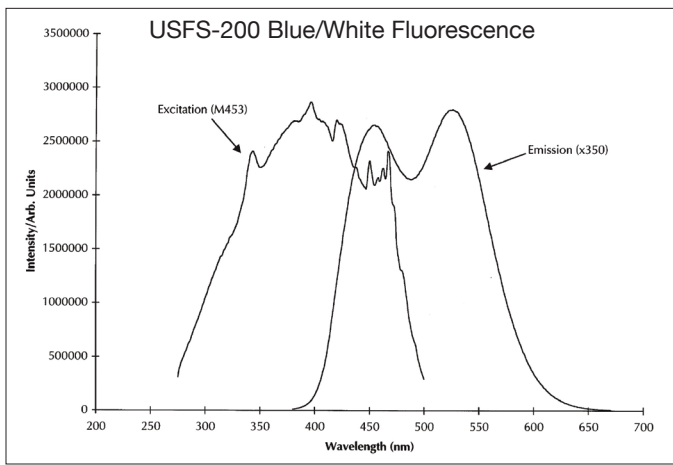
## Value

- Highly diffuse
- Environmentally stable
- Rugged, long lasting

## Applications

- Ideal for the biomedical, pharmaceutical, and textile industries
- Paper industry use for reflectance of "Bright White" paper products





## Specifications and Ordering Information

Part Number	Order Number	Reflective Area	Description	$D_f$ Max*	Emission Max. Range (nm)	Excitation Max. Range (nm)
USFS-200-010	AS-01258-060	1.25 inches	Blue/White fluor	2.4%	460 (430 - 580)	340 (<300 - 400)
USFS-200-020	AS-01259-060	2 inches	Blue/White fluor	2.4%	460 (430 - 580)	340 (<300 - 400)
USFS-205-010	AS-01258-160	1.25 inches	Blue fluor	4.5%	440 (430 - 470)	340 (<300 - 370)
USFS-205-020	AS-01259-160	2 inches	Blue fluor	4.5%	440 (430 - 470)	340 (<300 - 370)
USFS-210-010	AS-01258-260	1.25 inches	Green fluor	3.0%	540 (510 - 570)	340 (<300 - 420)
USFS-210-020	AS-01259-260	2 inches	Green fluor	3.0%	540 (510 - 570)	340 (<300 - 420)
USFS-336-010	AS-01258-360	1.25 inches	Orange fluor	2.1%	590 (560 - 630)	340 (<300 - 360)**
USFS-336-020	AS-01259-360	2 inches	Orange fluor	2.1%	590 (560 - 630)	340 (<300 - 360)**
USFS-461-010	AS-01258-460	1.25 inches	Blue/White fluor	5.5%	460 (430 - 480)	320 (<300 - 390)
USFS-461-020	AS-01259-460	2 inches	Blue/White fluor	5.5%	460 (430 - 480)	320 (<300 - 390)
USFS-500-010	AS-01260-000	1.25 inches	Set of five standards			
USFS-500-020	AS-01261-000	2 inches	Set of five standards			

\*  $D_f$  Max: The peak value of the fluorescent component of the material's bispectral *Donaldson radiance factor*, as defined in ASTM E2153

\*\*also has strong excitation band at 467 nm