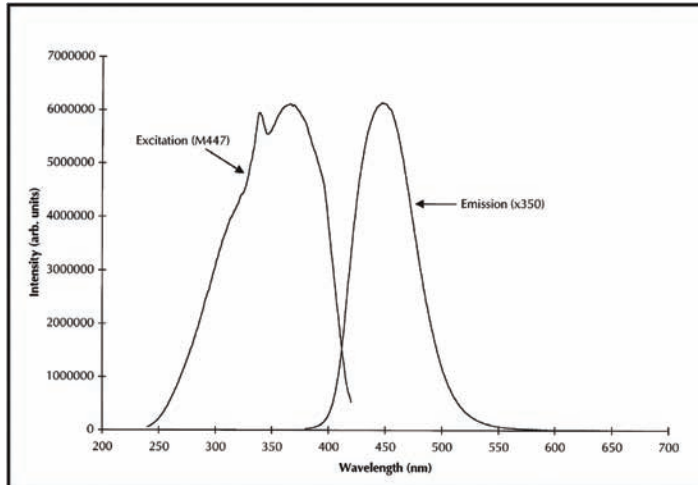


# SPECTRALON® FLUORESCENCE STANDARDS

Highly stable, durable fluorescence standards for calibrating colorimeters and spectrophotometers

## USFS-205 BLUE FLUORESCENCE



## WHITE FLUORESCENCE STANDARDS

A scaled series of eight white fluorescence standards is available from Labsphere as the exclusive agent of Frederick T. Simon, Inc. FTS white fluorescence standards are the industry standards for instrumental and visual reflectance in the paper, plastic and textile industries.

The white fluorescence standards are available individually, or as a set of the eight standards, numbered 9 through 16. The number scale increases according to the amount of "whiteness" of the standard. The white standards are formulated with an opacifier and a fluorescent whitening agent (FWA) molded in an acrylic plastic. Standards numbers 9 through 12 are made to approximate the Ciba-Geigy Plastic White Scale. Numbers assigned to the newer white standards indicate a general relation to the earlier scale, with numbers above 12 indicating a higher concentration of optical brightener. The amount of fluorescence obtained from this composition allows for a direct comparison to the evaluation of white paper, plastics or textiles without the need to extrapolate when comparing very bright materials.

The standards are available in a glossy finish, and are specially coated to promote scratch resistance. The standards are extremely stable and durable, and are easily cleaned by using a mild liquid detergent and rinsing with distilled water. Each standard is housed in a durable delrin holder with a protective cover.

### FEATURES:

- Consistent, reproducible fluorescence reflectance
- Highly diffuse
- Environmentally stable
- Rugged, long lasting
- NIST traceable calibration
- Available individually or in sets of three identical fluorescence or five varying fluorescence

### BEST FOR:

- Calibration of Colorimeters and Spectrofluorometers
- Standards for the Biomedical, Pharmaceutical, and Textile industries
- Paper industry standards for reflectance of "Bright White" paper products

## SPECTRALON FLUORESCENCE STANDARDS

Spectralon fluorescence standards 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 standards provide highly stable, reproducible fluorescence reflectance over a long period of time in varying conditions.

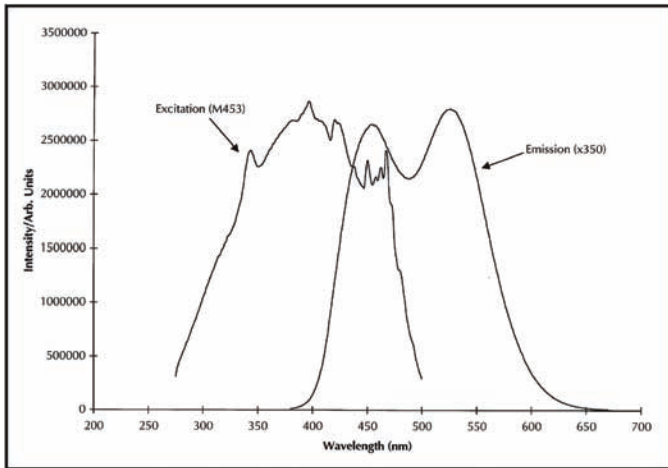
Spectralon provides the ideal matrix for inorganic fluors which are photochemically stable compared to their organic counterparts. The stability of the inorganic fluors, when combined with the durability of the Spectralon, results in rugged, long-lasting fluorescence standards for both field and laboratory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

Fluorescence standards are sold individually, in sets of three identical fluors, or as a set of the five fluors described. Standards are uncalibrated. Each standard is housed in a durable delrin holder with a protective color.

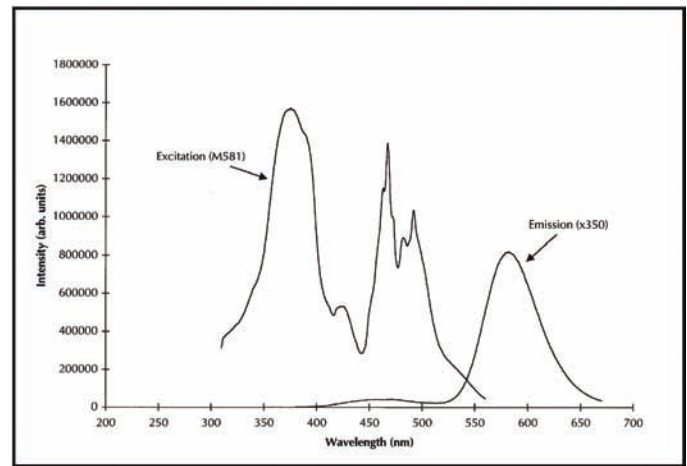


# Specifications

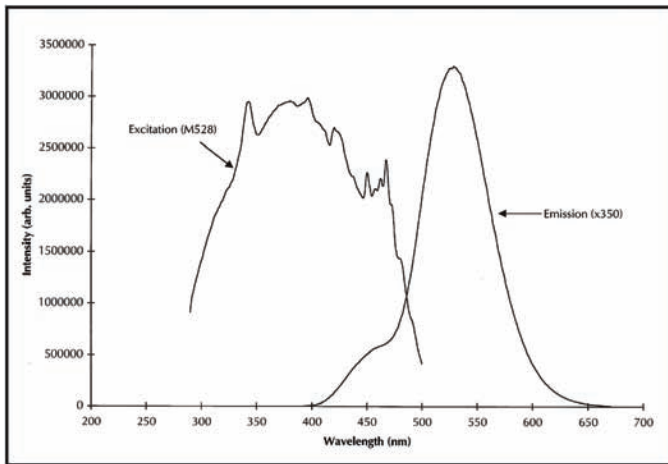
## USFS-200 BLUE/WHITE FLUORESCENCE



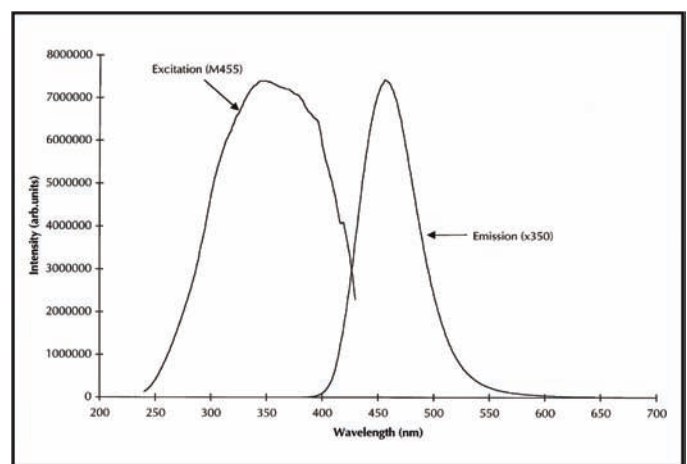
## USFS-336 ORANGE FLUORESCENCE



## USFS-210 GREEN FLUORESCENCE



## USFS-461 BLUE/WHITE FLUORESCENCE



### Spectralon Fluorescence Standards

Part Number	Order Number	Description	Emission Maxima (NM)
USFS-200-010	AS-01258-060	Blue/white fluor	455
USFS-200-020	AS-01259-060	Blue/white fluor	537
USFS-205-010	AS-01258-160	Blue fluor	447
USFS-205-020	AS-01259-160	Blue fluor	447
USFS-210-010	AS-01258-260	Green fluor	528
USFS-210-020	AS-01259-260	Green fluor	528
USFS-336-010	AS-01258-360	Orange fluor	467
USFS-336-020	AS-01259-360	Orange fluor	582
USFS-461-010	AS-01258-460	Blue/white fluor	456
USFS-461-020	AS-01259-460	Blue/White fluor	456

Excitation Maxima (NM)
353 at 60 nm half-height bandwidth
353 at 60 nm half-height bandwidth
339 at 53 nm half-height bandwidth
339 at 53 nm half-height bandwidth
343 at 55 nm half-height bandwidth
343 at 55 nm half-height bandwidth
375 at 70 nm half-height bandwidth*
375 at 70 nm half-height bandwidth*
345 at 46 nm half-height bandwidth
345 at 46 nm half-height bandwidth

\*also has strong excitation band at 467 nm

### Spectralon Fluorescence Standards Sets

Part Number	Order Number	Description
USFS-500-010	AS-01260-000	indicate the set of five one-inch standards desired
USFS-500-020	AS-01261-000	indicate the set of five two-inch standards desired

### White Fluorescence Standards

Part Number	Order Number	Description	Finish	Reflective area
FTS-160-020	AS-01412-000	White-Scale 16	Glossy	2.00 in
FTS-150-020	AS-01412-100	White-Scale 15	Glossy	2.00 in
FTS-140-020	AS-01412-200	White-Scale 14	Glossy	2.00 in
FTS-130-020	AS-01412-300	White-Scale 13	Glossy	2.00 in
FTS-120-020	AS-01412-400	White-Scale 12	Glossy	2.00 in
FTS-110-020	AS-01412-500	White-Scale 11	Glossy	2.00 in
FTS-100-020	AS-01412-600	White-Scale 10	Glossy	2.00 in
FTS-090-020	AS-01412-700	White-Scale 9	Glossy	2.00 in

### White Fluorescence Standards Sets

Part Number	Order Number	Description	Finish	Reflective area
FTS-800-020	AS-01429-000	Set of 8 standards	Glossy	2.00 in
		Scale: 16, 15, 14, 13, 12, 11, 10, 9		

