

# SO Objective and Filter Introduction

February 1, 2019

## Semi-Apochromatic Objective •PlanF S-Apo Objectives

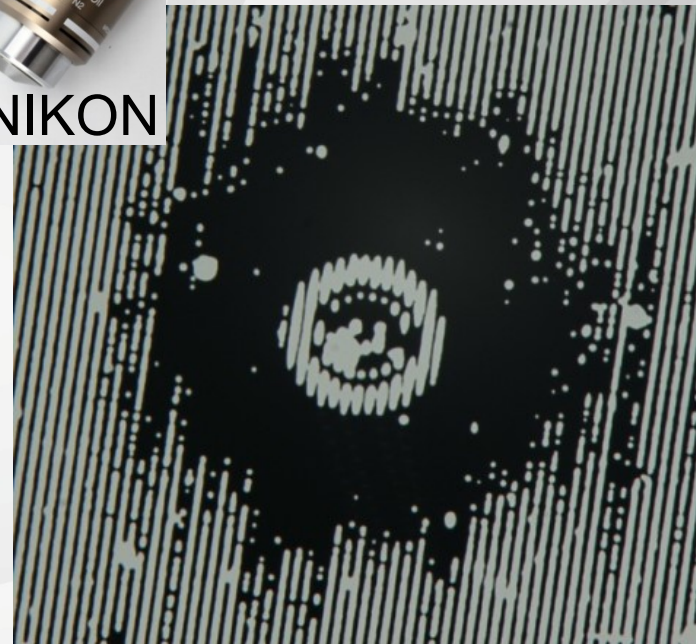
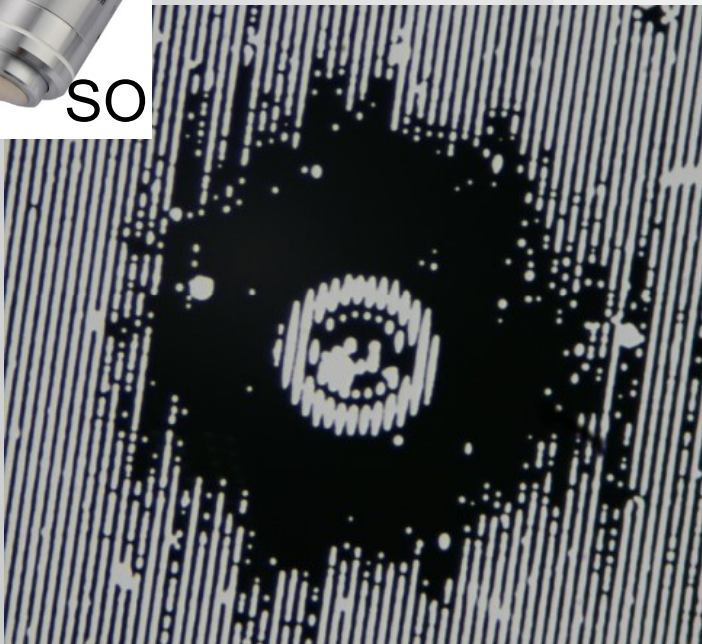


Serial Number	Name	Numerical Aperture	Working Distance (mm)	Cover Slip Thickness (mm)	Manufacturing State
1	10X Semi-Apochromatic Objective PlanF S-Apo Objective 10x	0.3	7.4	1.2	Mass Production MP
2	20X Semi-Apochromatic Objective PlanF S-Apo Objective 20x	0.45	7.5-8.8	0-2	
3	40X Semi-Apochromatic Objective PlanF S-Apo Objective 40x	0.60	3-4.4	0-2	
4	60X Semi-Apochromatic Objective PlanF S-Apo Objective 60x	0.7	1.8-2.6	0.1-1.3	

## Achromatic Objective •Plan Apo Objectives



Serial Number	Name	Numerical Aperture	Working Distance (mm)	Cover Slip Thickness (mm)	Manufacturing State
1	20X Achromatic Objective Plan Apo Objective 20x	0.75	1.1	0.17	Small Batch Production
2	100X Achromatic Objective Plan Apo Objective 100x	1.45	0.13	0.17	



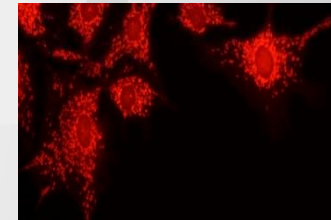
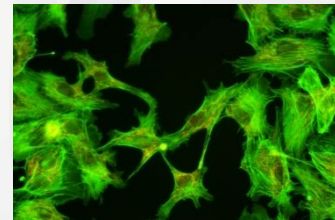
The 100X objective lens is evaluated by the discrimination rate plate and Nikon's 1.4 Achromatic Objective Lens.

Fluorescent Filter –  
Single Channel

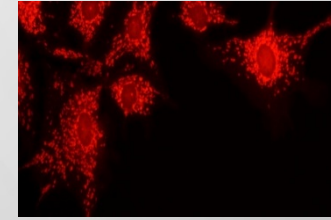
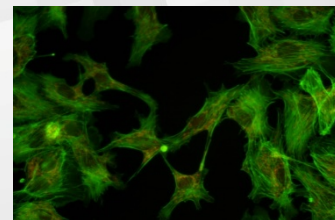


Comparison with America Chroma Products

SO



Chroma



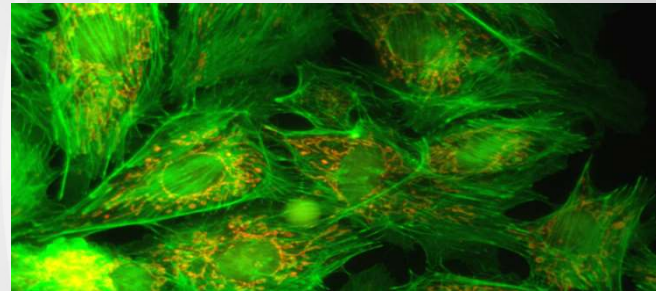


## Fluorescent Filter – Dual Channel

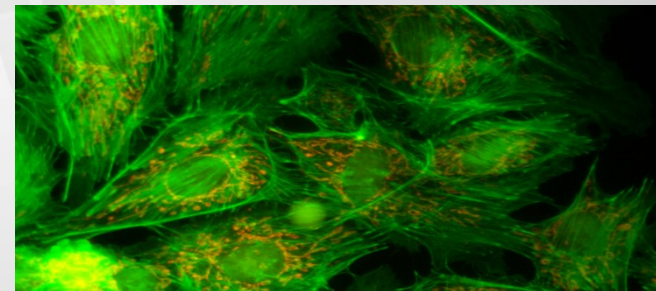


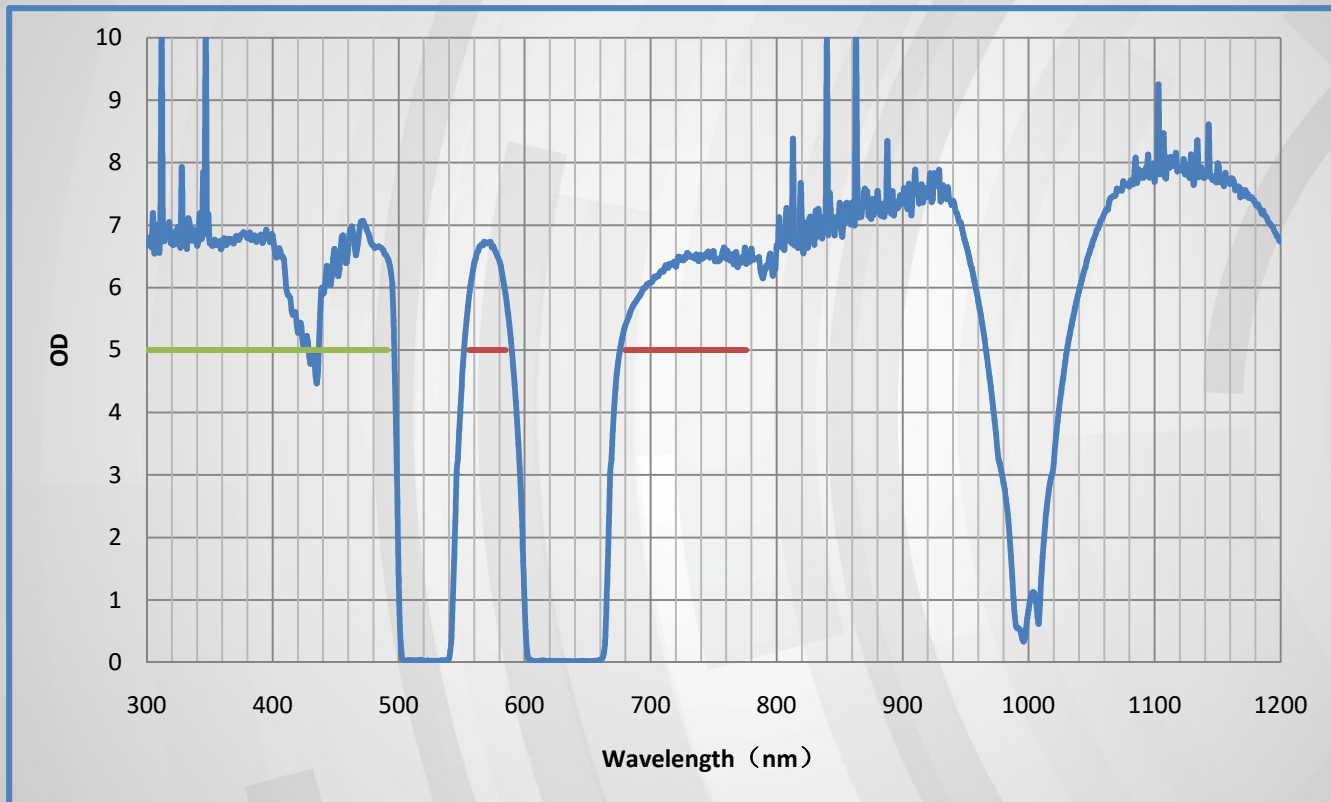
### Comparison with America Chroma Products

SO



Chroma





### Dual Channel Fluorescence Filter OD Curve Test Data

Cut-off actual measurement OD, specification (abs), specification (ave)