High Output

TUBE-SAFE® High output tubes are designed to offer the same kind of protection and decorative effects for T5 High Output tubes and have been created in response to market demands.

High Output fluorescent lamps have a much higher operating temperature than standard or High Efficiency lamps, the new sleeves are designed to work safely at these temperatures with adequate heat dissipation.

High Output sleeves must only be used when High Output lamps are matched to the manufacturers recommended electronic control gear (ecg), and must always have “end of life protection” to avoid excessive heating during lamp failure.

TUBE-SAFE® General specifications

Clear Tubes:		
Material	Optically clear extruded polycarbonate	
Light transmission	92.5% visible light including surface reflection.	
UV Transmission	UVC:	0.0%
	UVB:	22.0%
	UVA:	88%
Max Operating Temp:	130°C	(Glass transition 148°C)
Ignition resistance:		UL Fire classification UL 94V-0/1.5 (max temp test up to 960°C)
Charpy N Impact test		70kJ/m^2 at 23°C (ISO 179-1eA) (not High output)
Filter Film (all types)		
Operating Temperatures		Softening point > 250 ºC Ignition temperature > 400 ºC - Method: VDE 0345
Fire Resistance	BS 3944:1992	
Annex B Inclined Test	(BS2782:Method 140E:1982)	
Annex D Strip Test	(BS2782: Method 140D:1980)	

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T2 SOLUTIONS UK LTD

TUBE-SAFE® Fluorescent Lamp Products

TUBE-SAFE® protective and decorative sleeving products are available for all standard T5, T8 and T12 fluorescent lamps.

For T5 High Output lamps we have recently introduced a special range of protective sleeves.

Breakage protection

Decorative Colours

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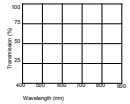
Technical Sleeves



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Darkroom Sleeves

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High Output

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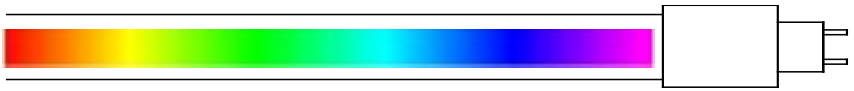
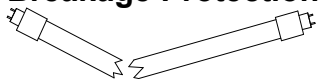


Breakage Protection



The **TUBE-SAFE®** high impact protective polycarbonate sleeves give excellent protection from mechanical shock, and should a lamp become physically damaged, it retains the phosphor coating and the mercury from Inside the lamp safely. The internal rubber seal and polycarbonate end cap ensures that no sharp glass fragments can escape.

Decorative Colours

TUBE-SAFE® decorative sleeves are available in 24 standard colours. TUBE-SAFE® is a highly effective way of enhancing retail or commercial areas, displays and point of sale promotions. The many available colours can be used to create a warm and welcoming ambience and are frequently found in retail areas, hotels, restaurants and pubs.

Col Ref	Description				
102	Light Amber	378	Yellow Green	182	Light Red
020	Medium Amber	090	Dark Yellow Green	309	Special Straw
022	Dark Amber	008	Dark Salmon	111	Dark Pink
019	Fire	164	Flame red	010	Medium Yellow
251	¼ White Diffusion	021	Gold Amber	126	Mauve
128	Bright Pink	068	Sky Blue	058	Lavender
071	Tokio Blue	325	Mallard Green	121	Evergreen
323	Jade	140	Summer Blue	009	Pale Amber Gold

Other colours are available on request.

Sizes and part numbers

T5 Sleeves

Power	Length	Part Number
4W	150mm / (6”)	T504W
6W	225mm / (9”)	T506W
8W	300mm / (12”)	T508W
13W	525mm / (21”)	T513W
14W	549mm / (2’)	T514W
21W	849mm / (3’)	T521W
28W	1200mm / (4’)	T528W
35W	1449mm/ (5’)	T535W

T8 Sleeves

Power	Length	Part Number
15W	450mm / (18”)	T815W
18W	600mm / (2’)	T818W
30W	900mm / (3’)	T830W
38WM	1000mm (1m)	T838WM
38W	1050mm / (3’6”)	T838WI
36W	1200mm / (4’)	T836W
58W	1500mm / (5’)	T858W
70W	1800mm / (6’)	T870W

T12 Sleeves

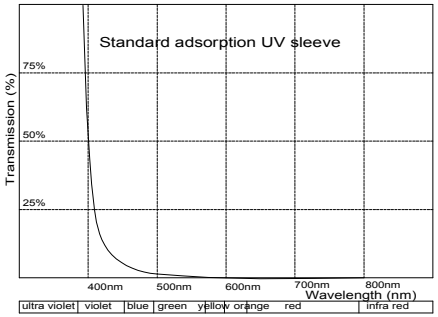
Power	Length	Part Number
20W	600mm / (2’)	T1220W
30W	900mm / (3’)	T1230W
40W	1200mm / (4’)	T1240W
65W	1500mm / (5’)	T1265W
75W	1800mm / (6’)	T1275W
100W	2400mm / (8’)	T12100W

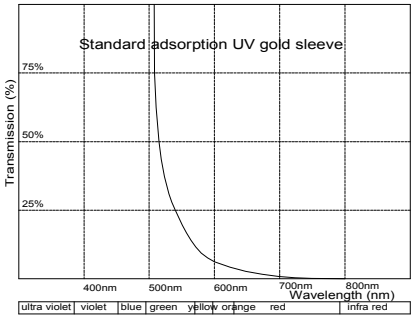
High Output T5 Sleeves

Power	Length	Part Number
24W	549mm / (2’)	T5HO24W
39W	849mm / (3’)	T5HO39W
54W	1149mm / (4’)	T5HO54W
49W	1449mm/ (5’)	T5HO49W
80W	1449mm/ (5’)	T5HO80W

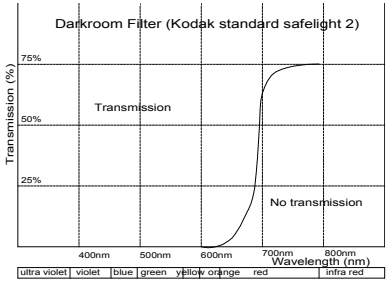
Technical Sleeves

TUBE-SAFE® technical sleeves include UV and UV gold sleeves. These adsorb the ultra violet radiation given off by fluorescent tubes. Fluorescent tubes work by producing ultra violet light in an atmosphere of ionised mercury. This UV light the causes the phosphorus coating on the inside of the glass envelope to fluoresce, producing visible light. Some of the UV radiation escapes in the form of UVA. Whilst this is not dangerous it can cause yellowing or fading in documents and artefacts, and increased bacteriological activity





Darkroom Sleeves



TUBE-SAFE darkroom sleeve to Kodak standard safelight 2. Other specifications available.