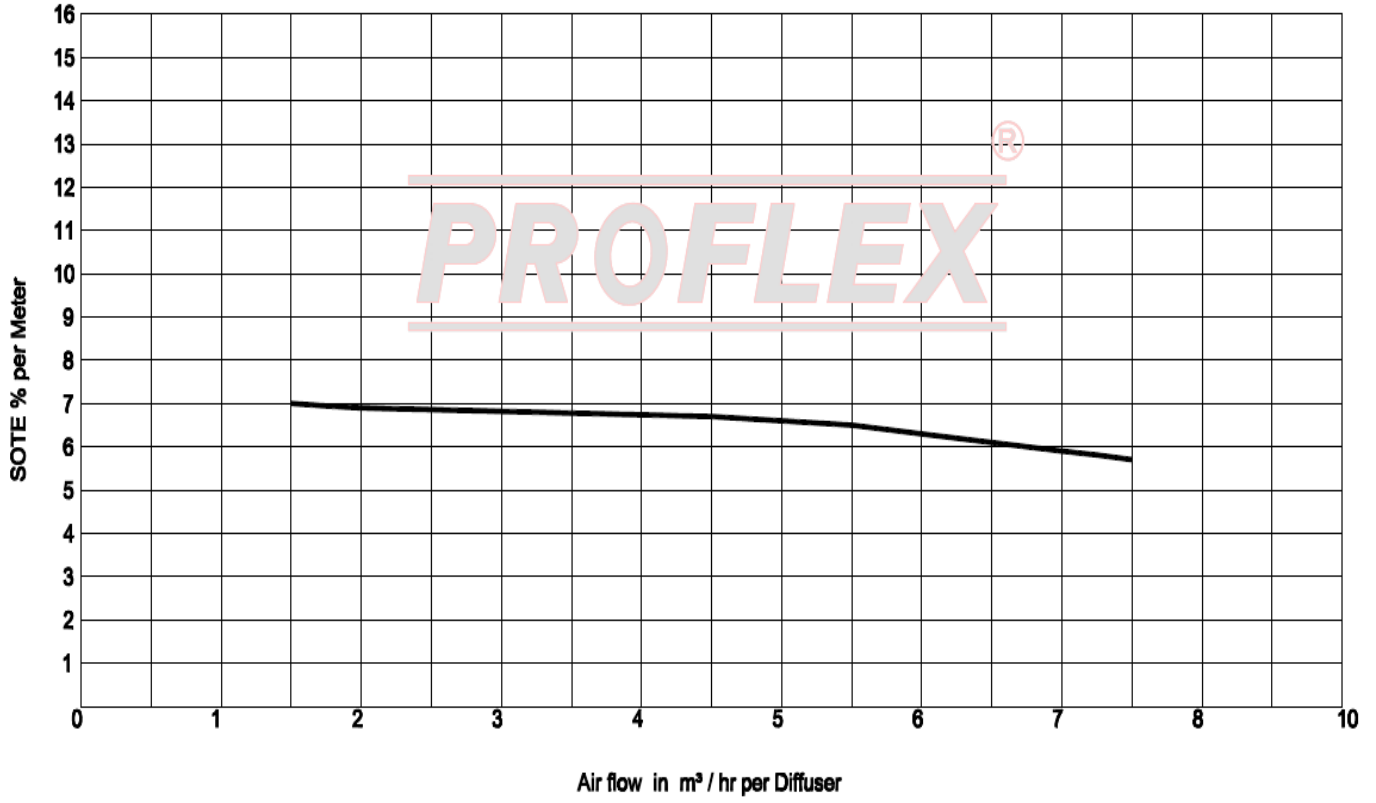




TP 631 E / S  
STANDARD OXYGEN TRANSFER EFFICIENCY



# TECPRO ENERGY SYSTEMS

Office : 21E, North High Court Colony, Villivakkam, Chennai -600 049 Tamil Nadu – India.

Phone : +9144 26171621, Mobile No : 09382667076,09500029191,09500039191.

Website: [www.tecproenergysystems.com](http://www.tecproenergysystems.com), [www.diffuseraerationsystem.com](http://www.diffuseraerationsystem.com)

e-mail: [tecpro@tecproenergysystems.com](mailto:tecpro@tecproenergysystems.com), [sales@tecproind.com](mailto:sales@tecproind.com)



## PROFLEX-TP631E

### Technical Specification

### PROFLEX EPDM MEMBRANE TUBE

PROFLEX EPDM Membrane Diffuser Sleeve is a EPDM extruded Proprietary material

PHYSICAL PROPERTIES			
S.No.	Parameter	Description	
1.	Colour	Black	
2.	Size	Dia- 63 +/-1mm, Length –1000mm	
3.	Size of Pore	0.6mm to 0.8mm	
4.	Size of the bubble.	2-4 mm	
5.	Permanent temp resistance	140 Deg C	
MECHANICAL PROPERTIES			
S.No.	Parameters	Standard	Value/ Unit
1.	Hardness	ASTM D2240-95	50+/-5 – shore "A"
2.	Tensile strength at break	ASTM D – 412	13.1 MPA
3.	Elongation at break	ASTM D – 412	0.49 MPA, .>4.45
Environmental Resistance Test			
S.No.	Parameters	Standard	Value/ Unit
1.	Resistance, 70 hours, 70 deg. C,	ASTM – D- 1171 – 94	non – cracking

	50mpa, partial Ozone pressure		
2.	Low Temperature Property, -40° C	ASTM D832-92	Non Brittle
3.	CHANGE OF HARDNESS SHORE A %	ASTM D2240-95	<10
4.	CHANGE OF TENSILE STRENGTH %	ASTM D - 412	<20
5.	CHANGE OF ELONGATION %	ASTM D - 412	<20

## PRODUCT SPECIFICATION

### PROFLEX FINE BUBBLE MEMBRANE DIFFUSER

#### 63mm X 1000 mm

Operating Air Flow - 5.0-8.0m<sup>3</sup>/hr./diffuser

Size of the bubble. 1 mm

Diffuser Surface Area: 2.19 sq Feet.=0.214 Sq M

No Pore Area= .0282Sq M, Effective Surface Area =0.1857 SqM

Ratio Of Diffuser Surface Area To Effective Surface Area: 10:8.5

Separation between Diffusers: 0.6 M

SOTE at 3 to 4 m submergence – 20% to 25 %

Pressure Loss 0.2kPa to .4 KPa