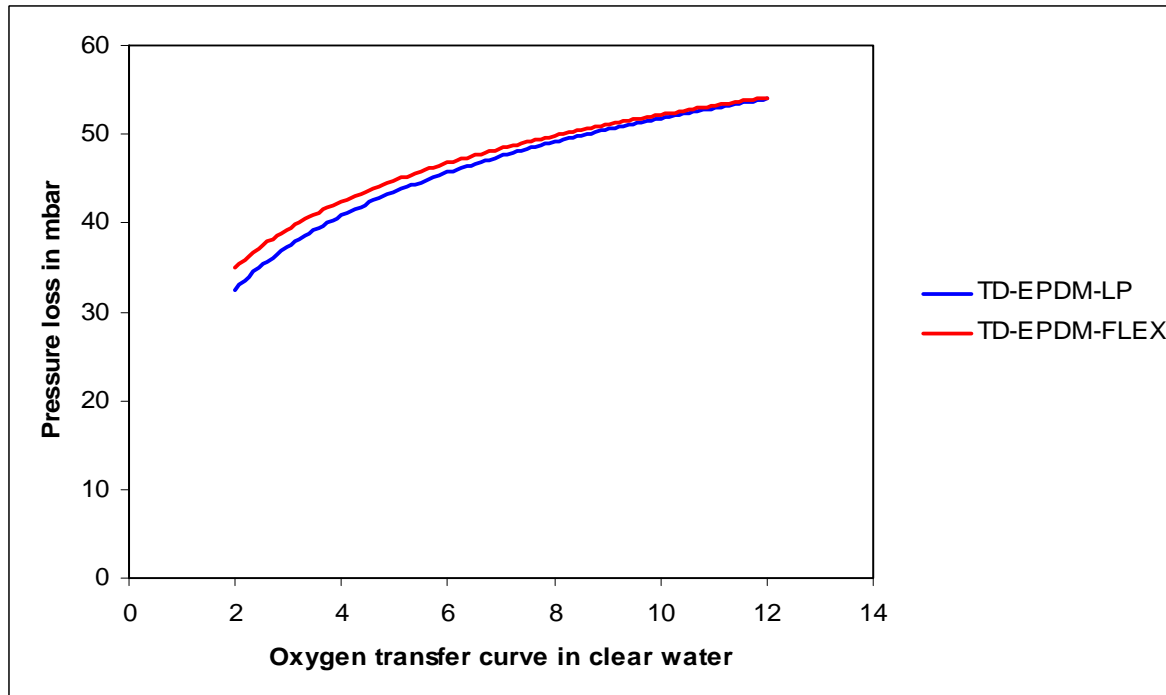


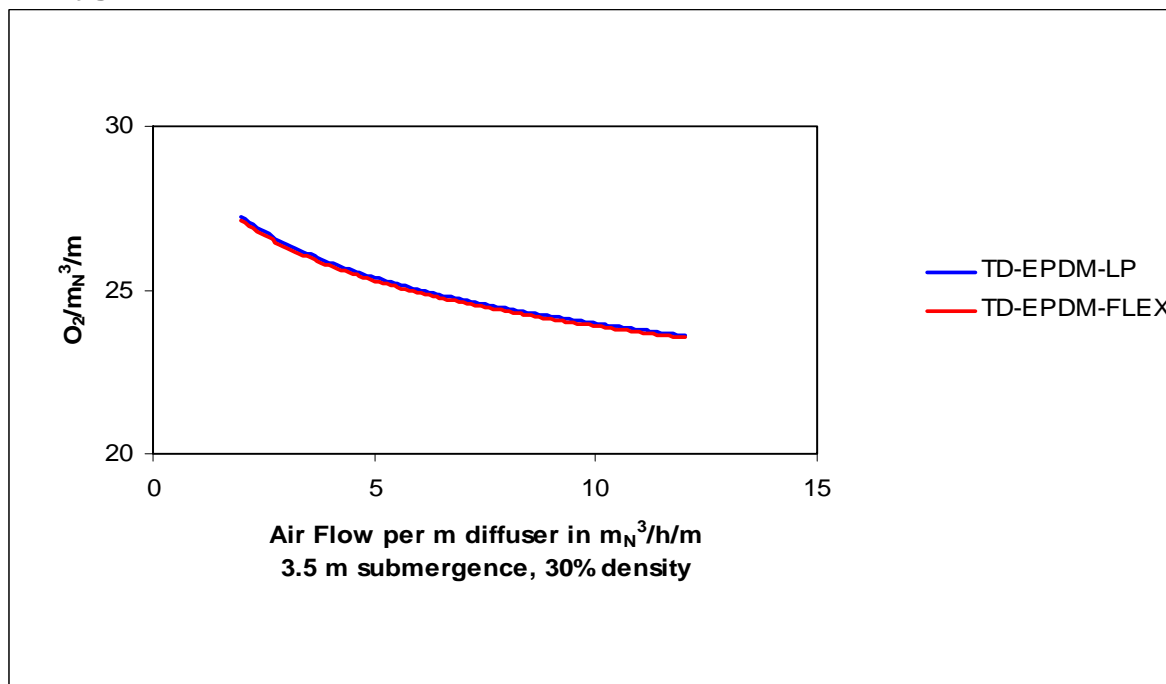
Technical Data Sheets IBS Tube Diffuser

As of June 2009

A. Pressure loss curve Membrane in moistened condition



B. Oxygen transfer curve in clear water





C. Mechanical properties Silicone Sleeves

ID 64.5, Wall thickness 1.5 mm, Slot size 1.1 mm

Properties	Physical values
Compound	Platinum catalyzed additional cross-linked silicone
Color	white
Hardness according to DIN 53505	60 +/- 5 Grad Shore
Density according to DIN 53479 A	1.17 – 1.19
Tensile strength at break according to DIN 53404-S1	10.5 +/- 15 %
Elongation at break according to DIN 53404-S1	650 % +/- 15 %
Tear-propagation-strength according to ASTND 624 B	41 +/- 10 %
Tear-propagation-strength according to DIN 53507	16.3 N/mm
Compression set	15 % +/- 25 %

Examination of the sleeves in extrusion direction. The tolerances for the above mentioned data sheets shown in % are to understand as percent dates concerning to the rated value. This technical data sheets are not subject to an updating service.

D. Mechanical properties EPDM-LPR sleeves

ID 64.5 mm, Wall thickness 1.7 mm, Slot size 1.1 mm

Properties	Physical values
Compound according to ISO 1629	EPDM heated on a mandrel (round type)
Color	black
Hardness according to DIN 53505	50 +/- 5 Grad Shore
Density according to DIN 53479	1.09 +/- 0.02 g/cm ³
Tensile strength according to DIN 53504	14 MPa
Elongation at break according to DIN 53404	725 %
Tear-propagation-strength according to DIN 53507	10 N/mm

Examination of the sleeves in extrusion direction. The tolerances for the above mentioned data sheets shown in % are to understand as percent dates concerning to the rated value. This technical data sheets are not subject to an updating service.



E. Mechanical Properties EPDM-LPF sleeves

ID 64.5 mm, Wall thickness. 1.7 mm, Slot size 1.1 mm

Properties	Physical values
Compound according to ISO 1629	EPDM free heated (flat type)
Color	Black
Hardness triple according to DIN 53505	48 Grad Shore
Hardness according to DIN 53519 T1	49 IRHD
Density according to DIN 53479	1.12 g/cm ³
Temperature	-40/+100 °C
Tensile strength according to DIN 53504	13.4 MPa
Elongation at break according to DIN 53404	825 %
Tear resistance DIN 53507A	17.6 N/mm

Examination of the sleeves in extrusion direction. The tolerances for the above mentioned data sheets shown in % are to understand as percent dates concerning to the rated value. This technical data sheets are not subject to an updating service.