## TURBO COLLECTOR

TECHNICAL DATA SHEET

<b>Probe design</b> Patent no: 2 195 586	FurboCollector represents a patented advancement in traditional collectors, boasting markedly improved heat transfer characteristics achieved through a more turbulent flow. Field measurements demonstrate that TurboCollector exhibits up to 33% lower bore resistance compared to equivalent measurements on a smooth collector.	
Installation and operation	The collector is delivered with the desired length and adapted to be easily installed with associated installation products, e.g. collector reel, collector feeder.	
Delivery form	The U-bend is well protected with a protection cap, ensuring its durability. The U-bend solution is designed to accommodate additional weights, facilitating an easier installation process. The collectors are stacked well on wooden pallets for a seamless transport and effortless installation. Desired length could be ordered with 10-meter intervals.	
Material	Polyethylene PE100-RC (RC=resistance to cracking)	
Dimension & pressure class	2, Ø40, Ø45, Ø50, Ø63 PN10 SDR17	', PN12.5 SDR13.6, PN16 SDR11
Standard	Our products have obtained certifications from Insta-cert, P-marking, and SKZ, tailoring to the specific requirements of the local market.	
	NEN 12201-2, SKZ HR3.26:A825/A7	59/A760, RISE SPCR 169
Physical properties Density Pipe roughness Minimum bending radius at 0°C Minimum bending radius at 10°C Minimum bending radius at 20°C Mechanical properties Tensile modulus of elasticity (23°C, v = 1 mm/min, secant) Yield stress (23°C, v = 50 mm/min	0.95–0.97 g/cm3 0.03 mm 50 × dn 35 × dn 20 × dn 1100 MPa 24 MPa	
(23°C, v = 50 mm/min) FNCT (4.0 MPa, 2% Arkopal N100, 80°C Point Loading Test Failure strain Mean thermal coefficient of linea thermal expansion	9% > 1 year >/= 350% 0.18 mm/m K	
Hardness Shore hardness (Shore D (3 sec))	62	
<b>Thermal properties</b> Thermal conductivity Specific thermal capacity Maximum temperature Minimum temperature When using permanent operating +20 °C to +40 °C. Pressure reduction factor:	~0.4 W/mK 1.9 J/g K +40°C - 20°C mperature higher than +20 °C: 1,0, +30 °C: 0,87, +40 °	C: 0,74





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