VINCI BIOTECHNOLOGIES

MICROSPARGER

ADVANCED GAS DISPERSION

DATASHEET

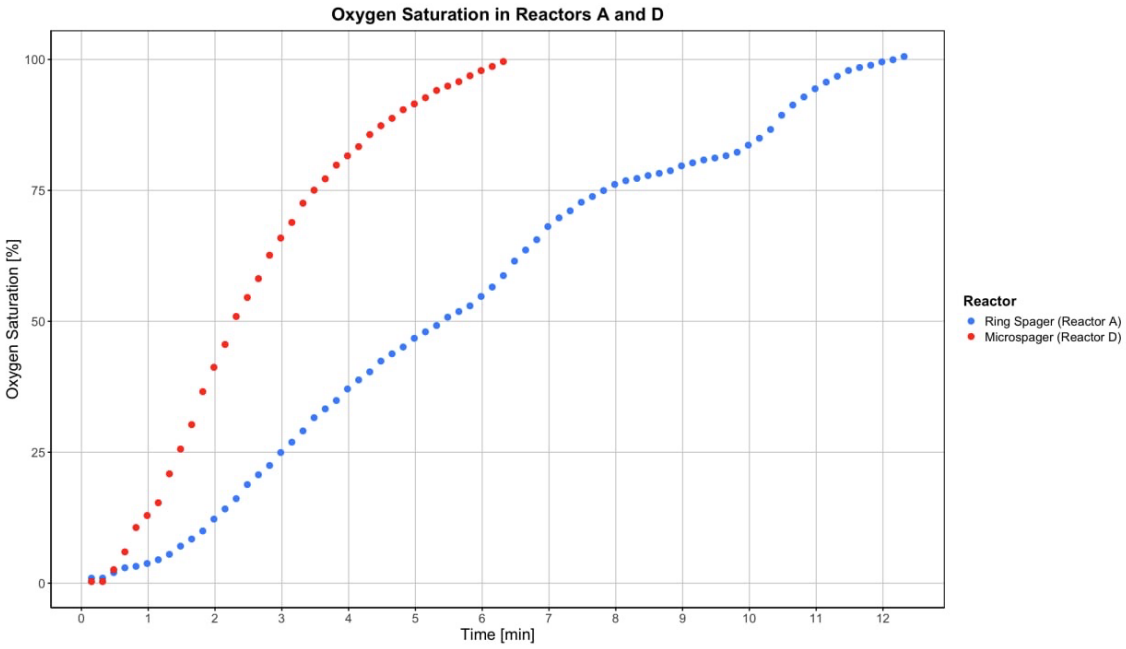
Rev. 0426

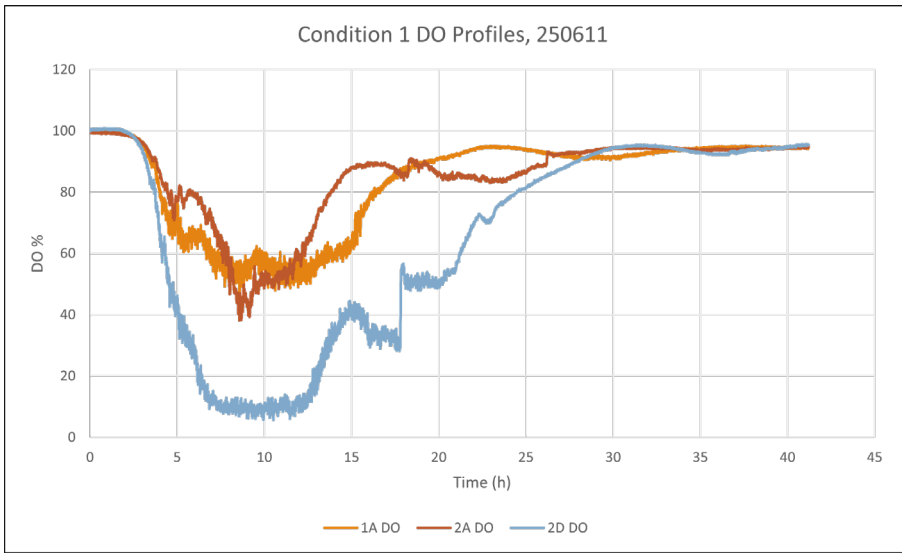
GENERAL OVERVIEW

Our innovative sintered disc sparger is designed for optimal gas dispersion in bioreactors, ensuring efficient mass transfer. Featuring a removable and interchangeable disc, it allows for easy cleaning and maintenance, even inside the sparger.
Made from electropolished AISI 316L stainless steel, it guarantees durability, chemical resistance, and high performance in demanding bioprocessing applications.

MICROSPARGER	
Total Length	Please refer to Table 1. Custom lengths available upon request.
Outer Diameter	Please refer to Table 1.
Pore Diameter	From 1 to 50 µm (larger pore sizes available upon request).
Material	Electropolished AISI 316L stainless steel
Gas Flow Rate:	0.2 - 30 L/min
Weight	100 g
Operating Pressure Range:	0.5 - 12 barg
Maximum Operating Temperature	130 °C
Chemical Compatibility	Resistant to solvents, acids, and bases (pH 2-12).

GASSING OUT PROFILE





Reactor	C_1	C_2	T_1	T_2	Volume	k_La (s^{-1})	OTR (mg/s)
Reactor A	0.961%	65.58%	0 s	409 s	675 mL	$2.36 \cdot 10^{-3}$	$4.29 \cdot 10^{-3}$
Reactor D	0.319%	54.55%	0 s	149 s	675 mL	$5.07 \cdot 10^{-3}$	$1.22 \cdot 10^{-2}$

Table 1

MODEL	D	I	H
DSPR-500	33	35	190
DSPR-1	33	35	255
DSPR-2	33	46	290
DSPR-3	48	57	300
DSPR-5	48	65	350
DSPR-7	60	65	415
DSPR-10	60	50	460