



## HyperSparge™

HyperSparge™ is a proven, cost-effective gas sparging technology used for delivering air, oxygen or other process gases into vessels for leaching or oxidation processes. The alloy steel injection lance and hard-wearing ceramic nozzle inject a supersonic gas jet into the process solution or slurry creating a region of very high local shear resulting in very efficient mass transfer.

### PROVEN TECHNOLOGY

more than 500 installations worldwide

### BROAD INSTALLATION BASE

installed across four industries covering five commodities

### HARD-WEARING CERAMIC NOZZLE

for improved equipment life

### IMPROVED OXYGEN UTILISATION

through efficient mass transfer

### LIVE INSERTION AND REMOVAL

ensuring no process downtime

### SUPERSONIC GAS INJECTION

high local shear increases leaching rates

### SUITABLE FOR ACIDIC ENVIRONMENTS

made with robust, long-life materials

### WIDE RANGE OF FLOW RATES AVAILABLE

get in touch to discuss your needs

### SIMPLE, ROBUST DESIGN AND CONSTRUCTION

easy to mount on ANSI flanges

\* All sources are available on the Glencore Technology website.

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hypersparge.com  
glencoretechnology.com