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FLEXIM



Magnetite is a mineral and one of three common naturally-occurring oxides of iron. Its chemical formula is Fe_3O_4 and it is a member of the spinel group. Magnetite is ferrimagnetic, it is attracted to a magnet and can be magnetized to become a permanent magnet itself. It is the most magnetic of all the naturally-occurring minerals on Earth









































Really tough application - 30% solids

FLEXIM

Cincinnati WWTP,

sludge line to the incinerator have no meters and have to do yearly testing/calibration for the EPA

30% solids using transit-time and it worked perfectly

They use Schwing concrete pumps to pump this sludge.

notice the flow velocities 0.02 to 0.35, no other meter could do this.

























Application	Meter diagnostics				
Application	Physical quantity	Unit	А	В	FLEXIM
 Measure OD using Wall thickness est previous experient Once a test signal Using a belt sa smooth as post Apply a layer of many air pock Apply a secon Once set, use 	SCNR	dB	32.17	37.48	
	SNR	dB	20.85	22.77	
	Gain	dB	95.60	89.04	
	Amplitude	%	35.90%	40.30%	and
	Quality	%	49.39%	77.86%	
	Vari. time	%	0.02%	0.80%	
	Vari. amplitude	%	5.11%	6.43%	
	Sound speed	m/s	1457.79	1442.65	URE
	Flowvelocity	fps	2.17	3.05	14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-









Application

This was a temporary setup to inject polymer and to test the FLEXIM meter. A simplex metering skid delivers the polymer from a tote. The flow range was from 0.02 to 1.0 GPH.

CDM, CDQ, GSM were tested with varying results.

The FLEXIM meter performed well with P transducers.

The XLF version was selected due to the very low velocity.



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