

Application fact sheet: **Sulfuric acid & oleum**

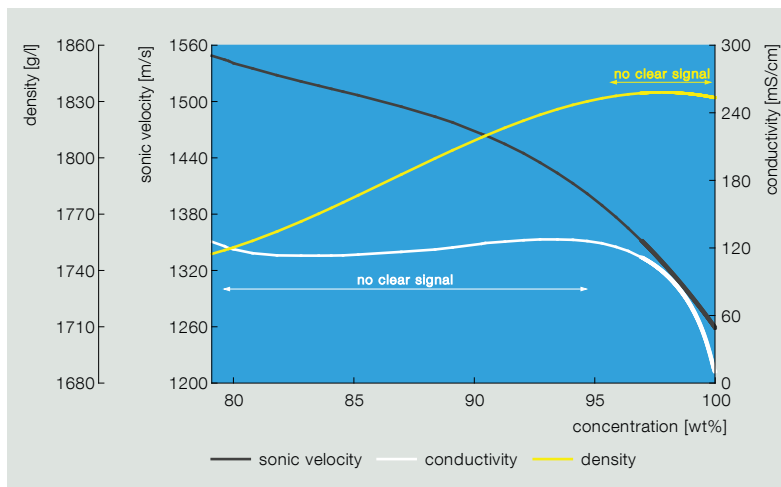
Inline sulfuric acid and oleum measurements with just one analyzer!

SensoTech offers safe and accurate inline sulfuric acid and oleum measurements to improve production and quality. Our LiquiSonic® analyzers are capable of measuring the entire range of sulfuric acid and oleum. SensoTech offers you inline process solutions for all kinds of industries, like

- sulfuric acid and oleum production
- synthesis gas drying in the chemical and petro chemical industry
- etching and pickling agents in the steel industry
- ore processing in mining
- raw material for sulfate fertilizer
- basic chemical for various chemical products

Benchmark with other measuring methods

- high accuracy of 0,05 wt% between 80 % and 100 % H₂SO₄
- conductivity and density show inflection points
- standard devices do not allow field adjustment
- poor sensitivity



Benefits

- increase of quality, production, cost savings, revenue
- continuous real-time monitoring of concentration and blending processes
- high accuracy, plug&play, maintenance-free, no moving parts
- automatic and high-precision temperature compensation
- corrosion-resistant materials like Hastelloy C-2000 or Tantalum
- up to four sensors connected to one LiquiSonic® 30 controller

In liquids, we set the measure.

SensoTech worldwide

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	Concentration	Temperature
H ₂ SO ₄	60 - 100 wt%	10 - 95 °C
H ₂ SO ₄	10 - 40 wt%	20 - 60 °C
oleum	0 - 30 wt%	20 - 60 °C
H ₂ SO ₄ /oleum	80 - 110 wt%	20 - 60 °C
accuracy	< 0.05 wt% H ₂ SO ₄ or oleum	

Sonic Velocity

resolution: -0.01 m/s
reproducibility: ±0.02 m/s
accuracy: ±0.05 m/s

Temperature

resolution: 1 mK
reproducibility: ±0.02 K
accuracy: ±0.05 K

Application highlights

- DCDA or WSA process
- synthesis and chlorine gas drying
- fertilizer production
- copper mining



LiquiSonic® analyzer

For more information contact us!