

## BYK A-GS-AA-91

Modified phosphate ester-based micellar acidizing additive for use in HCl and HCl/HF acids to remove organic deposits, eliminate water and emulsion blocks, and to reduce interfacial tension.

### Product Data

#### Composition

Modified phosphate ester

#### Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

pH (25 °C): 1.0 to 1.5  
Appearance: Clear pale yellow liquid  
Density (25 °C): 0.97 g/ml  
Flash point: >66 °C

### Applications

#### Oil & Gas Industry

##### Special Features and Benefits

BYK A-GS-AA-91 is a modified phosphate ester-based micellar acidizing additive for use in HCl and HCl/HF acids to remove organic deposits, eliminate water and emulsion blocks, and to reduce interfacial tension. BYK A-GS-AA-91 will leave the formation water wet and will also retard HCl acid at high temperatures. BYK A-GS-AA-91 can be used independently as a stimulation surfactant for well bore and near well bore remediation.

##### Recommended Use

Spot in producing zones and squeeze into the oil and gas reservoirs to remove wax, scale or organic deposits; allow to soak 48 hours. Similarly use as a surfactant to remove scale or other blockages in water injection wells. Corrosion inhibitor additive for improved metal surface wetting.

##### Recommended Levels

0.1 to 0.5 % additive in acid solution depending on temperature.

Use at the higher range to retard HCl dissolution of carbonates at high temperatures. Use as a stimulation surfactant at 5-25wt% concentration in brine. The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

# BYK A-GS-AA-91

Data Sheet  
Issue 02/2021



Additive Guide



**BYK-Chemie GmbH**  
P.O. Box 10 02 45  
46462 Wesel  
Germany  
Tel +49 281 670-0  
Fax +49 281 65735

**info@byk.com**  
**www.byk.com**

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOÍSITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITÉ®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions – Printed in Germany