

## **PRODUCT DESCRIPTION**

AS-15 acidizing sticks are a synergistic blend of mild organic acids, surfactants, and foaming agents. AS-15 is designed to remove scale from down-hole and surface equipment. The foam generating properties of this product make it an excellent choice for down-hole treatment of gas wells. The product effectively dissolves iron oxides and sulfides and carbonate scales to clean equipment surfaces and reduce the potential for under deposit pitting corrosion. The surfactant elements in AS-15 allow the product to de-oil solids to maximize the effect of the acidizing element. This surfactancy all aids in the removal of compacted sludge buildups and acid-insoluble deposits to assure effectiveness.

## **RECOMMENDED APPLICATION**

AS-15 is applied to flowing wells through a lubricator at the wellhead. In water handling and injection systems the product may be dropped into the water tank or down the injection wells. Recommended application rates are 3 to 5 per treatment. A minimum of 4 hours shut in time to allow the stick to fall to the bottom of the well and dissolve is recommended. AS-15 should be added to water holding tanks at a rate of 3 to 5 sticks per 100 barrels of water. Actual product requirements will vary with application and quantity and type of solids present. Local testing is recommended to determine the optimum application rate for individual wells.

## **COMPATIBILITY**

AS-15 is anionic. It is compatible with nonionic and other anionic additives. It should not be used with cationic additives unless the compatibility is confirmed by testing.

## **TYPICAL PHYSICAL PROPERTIES**

Form (70°F):	Solid
Chemical Family:	Organic
Color:	Brown
Solubility:	Fresh Water Soluble High TDS Brine Soluble Hydrocarbon Dispersible
Size:	1 ¼" X 15"
pH (neat):	1.5-2.5
Charge:	Anionic
Flash Point:	>200°F (93.3°C)
Melting Point:	140°F (60°C)

## **HANDLING/STORAGE**

AS-15 sticks should be stored in a cool, dry location. As with any industrial chemical, keep out of reach of children and avoid prolonged contact with skin and eyes. In case of skin or eye contact, flush the exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of AS-15.

## **PACKAGING**

AS-15 is available in 48 qt ice chest (80 sticks), Cargo (100 sticks), Packer 45 (300 sticks) and Open Head Drum (450 sticks).