

## Global Partners

**Chemithon International Pte. Ltd.**, Singapore  
Asia, Africa, Middle East

**Chemithon Engineers Pvt. Ltd.**, Mumbai  
South and Southeast Asia

**Chemithon Beijing**  
Asia Pacific

**IIT Srl**, Busto Arsizio, Italy  
Europe, Middle East,  
North Africa

**Mitsui Plant Systems,**  
Tokyo

## When Considering Sulfonation Equipment, Go with the Technology Leader - Chemithon

From our founding in 1954, Chemithon has remained the world leader in sulfonation and detergent process technology. Since the issue of our first patents in 1962, Chemithon has continued to reinvest in the development of new technologies. Our customers receive the benefit of more than 50 years of experience and 300 US and corresponding international patents.

Patent No. 7,008,603	Process and apparatus for quantitatively converting urea to ammonia on demand	Patent No. 4,267,119	Sulfonating method
Patent No. 6,895,983	Method and apparatus for dividing the flow of a gas stream	Patent No. 4,251,456	Method for treating effluent gas from sulfonation process
Patent No. 6,887,449	Method of quantitatively producing ammonia from urea	Patent No. 4,239,035	Solar heating method
Patent No. 6,761,868	Process for quantitatively converting urea to ammonia on demand	Patent No. 4,216,001	Gas scrubbing apparatus
Patent No. 6,572,835	Method and apparatus for producing gaseous sulfur trioxide	Patent No. 4,185,030	Sulfonation method
Patent No. 6,511,644	Method for removing contaminants in reactors	Patent No. 4,171,243	Spray drying method
Patent No. 6,058,623	Apparatus and process for removing volatile components from a composition	Patent No. 4,113,438	Sulfonating apparatus
Patent No. 5,723,433	Solvent removal process	Patent No. 4,096,236	Gas scrubbing method
Patent No. 5,597,403	Flue gas conditioning system for intermittently energized precipitation	Patent No. 4,067,663	Sewage pump priming system
Patent No. 5,587,500	Sulfonation of fatty acid esters	Patent No. 3,734,109	Spray Cleaning System
Patent No. 5,244,642	Method for conditioning flue gas	Patent No. 3,620,684	Apparatus for Cont. Sulfonation
Patent No. 5,136,088	Sulfonation process for viscous sulfonic acid	Patent No. 3,447,732	Integrally Formed Dispensing Containers Having Improved Pouring Methods
Patent No. 4,779,207	SO <sub>3</sub> flue gas conditioning system	Patent No. 3,363,994	Chemical Digester
Patent No. 4,587,029	Intermediate product for use in producing a detergent bar	Patent No. 4,311,552	De-inking of newsprint
Patent No. 4,347,100	Strength of paper from mechanical or thermomechanical pulp	Patent No. 3,259,645	Continuous Sulfonation Process
Patent No. 4,515,707	Intermediate product and method for use in producing a detergent bar	Patent No. 3,257,175	Sulfonation Apparatus
Patent No. 4,385,593	Introduction of alcohol-water mixture into gasoline-operated engine	Patent No. 3,240,801	Separation of Sulfonic Acid from Excess Sulfonating Agent
Patent No. 4,374,058	Method for producing powdered detergent containing alpha olefin sulfonate	Patent No. 3,091,519	U.S. Reaction Chamber System
		Patent No. 3,069,243	Sulfonation Apparatus
		Patent No. 3,069,242	Sulfonation Apparatus
		Patent No. 3,058,920	Sulfonation Process
		Patent No. 3,024,258	Sulfonation Process

