

MARTOL AL serie

Optimized Aluminum Forming Oil



MARTOL AL

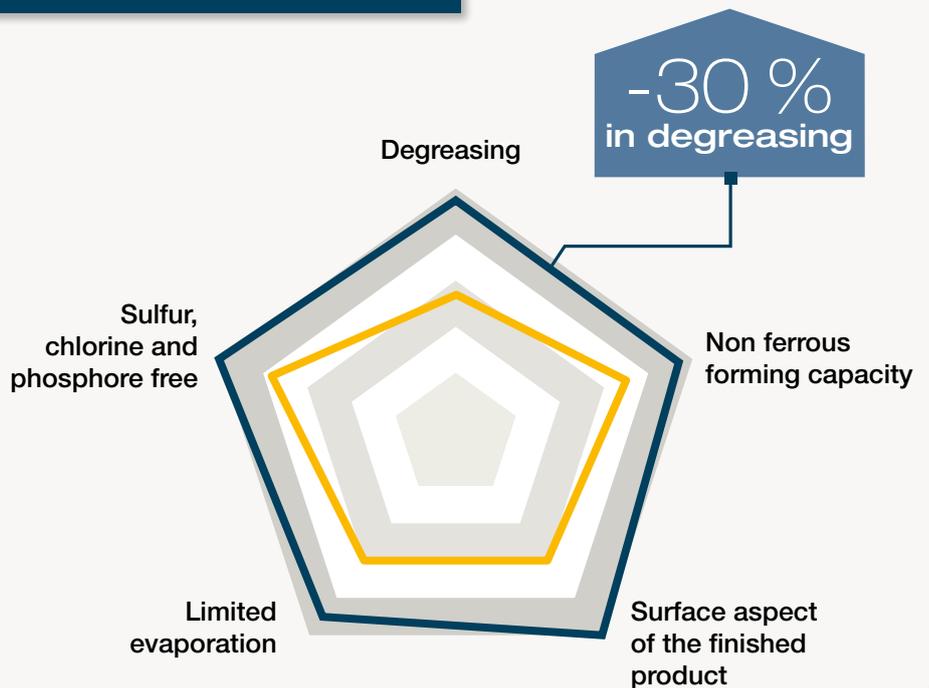
is a special blend of refined base oil and selected esters. Both forming performances and degreasing are optimized, matching requirements for many industries. This technology is widely used for all kinds of deep drawing, wire drawing and cold heading.



CUSTOMER BENEFITS

- > Enhanced forming capacity
- > Gain in productivity

OPTIMIZED PERFORMANCES



◆ MARTOL AL serie
◆ Standard stamping oil



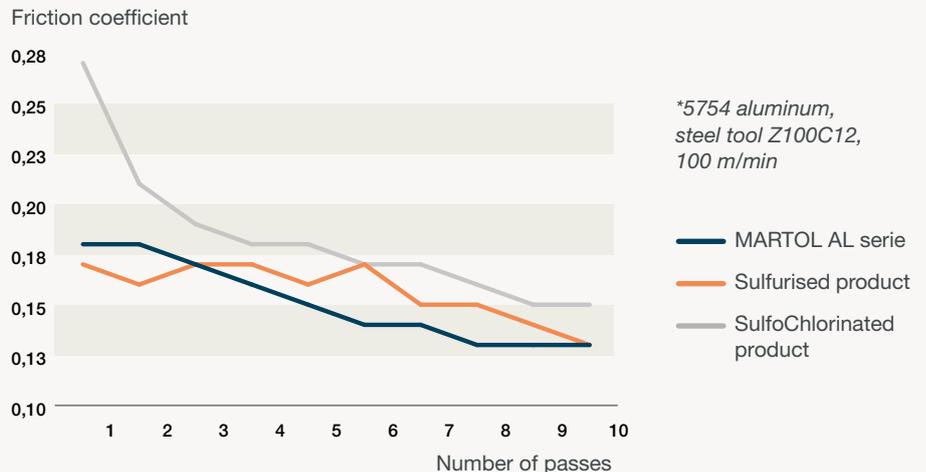
TOTAL



OUTSTANDING PERFORMANCES

> **MARTOL AL** is optimised for aluminum drawing to reduce the friction, enable extended formability and increase the tool life.

Aluminum Strip drawing test*



The strip drawing test is widely spread in the automotive industry to measure friction under drawing conditions by repeating the measure over several passes. **MARTOL AL** shows very low friction and very fast activation of its active matters to beat the other forming technologies.

STANDARDS AND SPECIFICATIONS

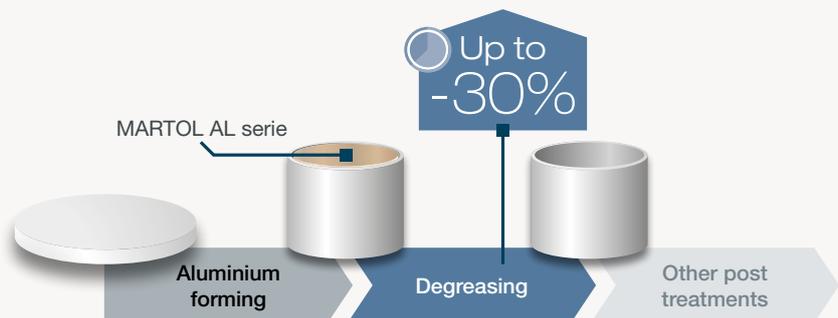
- ISO TS 12927 MHB

“*Degreasing was limiting our productivity. We tested **MARTOL AL** which reduced the time spent on this operation by 30%. Instead of investing in a new degreasing line, changing the oil gave us full satisfaction and capacity to produce at a higher rate.*”

Manager of a stamping plant in France

ENHANCED DEGREASING

> **MARTOL AL** shows excellent degreasing properties. The formula of **MARTOL AL** is optimized for the operation. Therefore, TOTAL has also optimized its degreasing.



> Degreasing times have been reduced by 30% in the field. Customers were able to increase their productivity without investing in a new degreasing line.

TOTAL offers 3 grades of aluminum stamping oils to cover all applications.

	MARTOL AL 20 HC	MARTOL AL 60	MARTOL AL 150
Viscosity at 40°C (cSt)	20	60	150

