

An increased price to performance ratio with a cost saving of 15% with **Molygraph Smoothform 2900TD.**



Industry: Automotive | Application: Forming of Aluminum Wheel disks
Client: Automotive Wheel Manufacturer | Location: South India

Overview

A major wheels manufacturer in India was looking at a cost effective solution for their lubrication requirements in their wheel forming process. They had been using a competitor product for the last 18 years and required cost savings with similar or better performance.

With expertise in custom formulation, Molygraph specially developed a product for this particular application. This was especially challenging as the customer was using a heritage product since a long time and was expecting a better price to performance ratio in a short span of time.

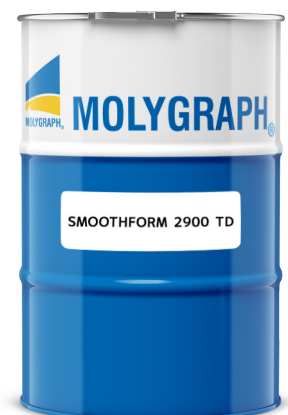
Challenge

- ⚙ Increased price to performance ratio.

Solution

MOLYGRAPH SMOOTHFORM 2900TD

- ⚙ Specifically formulated for tube drawing and pilgering application.
- ⚙ Fortified with extreme pressure and anti-wear additives.
- ⚙ Superb boundary lubrication performance during metal forming operations.
- ⚙ Resists corrosion to steel and aluminum surfaces.



Benefits of Molygraph Smoothform 2900 TD

Technical Specifications	Competitor Product	Smoothform 2900 TD	Test Method	Molygraph Advantage
Base oil viscosity cSt at 40°	150	230	ASTM D-445	Superior film forming ability
Four ball weld load	600	800	ASTM D-2596	Better performance under heavy loads
Corrosion resistance	4C	2E	ASTM D-1264	Greater resistance to corrosion

Results

Trials were taken on a 500 ton press with aluminum sheet thickness between 2.3-6 mm. The drawing depth was 100 mm. Following was observed during the trials:

- ⚙ Smooth formation of the parts without any surface defects.
- ⚙ No skin irritation during long term usage of the product.
- ⚙ No corrosion during long term storage, even during the monsoon season.
- ⚙ Easy cleanability of the oil so as to not interfere with the subsequent painting process.

Overall savings of 15% over existing lubricant used



We accelerate industrial productivity by providing the most efficient lubrication solution.

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