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DYNAMIC
SURFACE TECHNOLOGIES

3 Reasons why your Injection Mold needs DYNA-BLUE!!!

May 2010

Featured

[What is DYNA-BLUE???](#)

[Reduce Wear from Glass Filled Plastics](#)

[Reduce Sticking](#)

[Weldable, durable, excellent release](#)

Quick Links

[Check out our web site](#)
["We saved Ford \\$360,000"](#)
[DYNA-BLUE applications](#)
["About us"](#)

What is DYNA-BLUE???

Cut cost, increase tool life

"The most cost effective way to cut your mold/tool cost is to increase mold/tool life with DYNA-BLUE". DYNA-BLUE increases tool life 5-10 times longer than Nickel or Chrome Plating, Ion/Gas Nitriding. The DYNA-BLUE process has consistently been more cost effective with a lower cost per piece (molded) than more expensive coatings such as TiN as well as less expensive treatments such as nitriding, nickel or chrome plating.

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Also problems with plastic sticking, welding and dimensional stability are eliminated.

→ 1. Reduce Wear from Glass Filled Plastics.

DYNA-BLUE helps prevent wear from Glass Filled Plastics due to the 75HRC surface as compared to 60-65 HRC for Hard Chrome or Ion Nitriding. DYNA-BLUE is diffused into the steel so there is no chipping, flaking, or peeling. Total depth of hardness is .005"-.010 deep vs .0001-.0003" for Chrome. The DYNA-BLUE layer is uniform on all surfaces and even penetrates bores, holes, etc and is not line of sight like ion/plasma nitriding that cannot.

→ 2. Reduce sticking.

The DYNA-BLUE process helps prevent sticking and buildup of plastics on mold surfaces. The process also reduces the coefficient of friction and increases lubricity on slides, cores, etc. The compound layer produced gives better release than other ion/gas nitriding processes.



DYNA-BLUE is a low temperature diffusion process incorporating a Fluidized Bed Ferritic Nitrocarburizing process and steam blueing that yields a compound zone 75+ HRC supported by a nitrogen rich diffusion zone. The DYNA-BLUE process resists wear from glass and mineral filled plastics while dramatically increasing tool life!!!

[Click here for 3D animation on how DYNA-BLUE is applied](#)



→ 3. Weldable, durable, stable

When a design change comes you will find that DYNA-BLUE is weldable and does not need to be stripped. The DYNA-BLUE process will blend well on welded, textured, grained or reworked surfaces. High finishes can be maintained. Also because of the uniformity of the process and low temperatures used the DYNA-BLUE process has excellent dimensional stability.

"Our DYNA-BLUE is a proven process that has saved thousands of dollars for injection mold operations. The DYNA-BLUE process is the most cost effective solution to reduce wear from glass filled plastics, prevent sticking, provide weldability and stability, in fact we guarantee it".

Sincerely,

Loren Epler
Dynamic Surface Technologies
(formerly Dynamic Metal Treating)

Call us today to dramatically reduce downtime, and increase mold/tool life and part quality at 734-459-8022

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