

MOLDADUR®-P STAINLESS

Schutzschicht for polished and textured surfaces on plastic molds

MOLDADUR®-P stainless is a special plasma process of voestalpine eifeler Coating GmbH, which creates a protective layer on highly sensitive surfaces. The surface is thereby lastingly protected against wear or damage. It is used for polished, textured and grained surfaces on plastic molds.

COATING PROPERTIES

Hardness	900 – 1,000 HV
Coating thickness	20 – 30 µm

COATING ADVANTAGES

- » Retention of the advantageous toughness of the tool material and therefore less embrittlement
- » Less dimensional changes of the surface of the tool with a reduced diffusion layer
- » Lower surface roughness after nitriding
- » High weldability

APPLICATIONS

- » Plastic injection molding

EXAMPLE RESULTS OF TREATMENT WITH MOLDADUR®-P STAINLESS

Manufacturer	Material	Surface hardness after MOLDADUR®-P stainless [HV0,1]*	Intitial hardness [HV0,1]*
General	1.2343ESU	1200	550
	1.2316	1350	300
	1.2738	900	350
	1.2083	1400	600
	1.2379	1300	700
BÖHLER	W400	1100	500
	W300	1200	500
	M303	1350	300
	M333	1350	500
	M368	1400	550
	M268	900	350
	M261	950	350
EschmannStahl	ES Primus SL	1200	550
	ES Atlas 42	950	450
Uddeholm	Caldie	1150	650
	Stavax ESR	1400	550
	Elmax	1500	650
	QR090	1100	500
	Nimax	1000	400
	Unimax	1200	650
	Corrax	1350	550
	Van4E	1200	700

* General measurement tolerance ± 50 HV, in addition to the alloy composition of the steel the results achieved also depend on the individual process management.

voestalpine eifeler Coating GmbH

Duderstädter Straße 14
40595 Düsseldorf
T. +49 / 211 / 970 76-0
F. +49 / 211 / 970 76-955
www.eifeler.com