

## Industeel Superplast® Stainless Mold Steel

Category : Metal , Ferrous Metal , Stainless Steel , Tool Steel , Mold Steel

### Material Notes:

SUPERPLAST® Stainless is a specially designed steel for plastic mould bases providing improved performances compared to standard grades such as 1.2085. SUPERPLAST® Stainless offers improved machinability, improved consistency and weldability, and increased thermal conductivity. Moreover, thanks to its low Carbon and 13% Chromium content, SUPERPLAST® Stainless ensures a good corrosion resistance (atmospheric as well as from acidic polymers). SUPERPLAST® Stainless offers significantly improved machinability (tool life and chip removal) when compared to 1.2085 commonly used for this application. The steel provides also an improved dimensional stability after machining, thanks to its balanced chemical composition and special heat treatment. Nevertheless, SUPERPLAST® is not recommended for texturing and polishing.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Industeel-Superplast-Stainless-Mold-Steel.php](http://www.lookpolymers.com/polymer_Industeel-Superplast-Stainless-Mold-Steel.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	322	322	40 mm from surface
	322	322	60 mm from surface
	323	323	20 mm from surface
	324	324	0 mm from surface
	324	324	80 mm from surface
	324	324	105 mm from surface
	325	325	108 mm from surface
	325	325	100 mm from surface
Tensile Strength, Ultimate	1060 MPa	154000 psi	
Tensile Strength, Yield	870 MPa	126000 psi	
Elongation at Break	>= 11 %	>= 11 %	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	25.0 W/m-K	174 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.040 %	<= 0.040 %	
Chromium, Cr	13 %	13 %	
Iron, Fe	>= 86.72 %	>= 86.72 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	<= 0.14 %	<= 0.14 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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