

EschmannStahlGrade
ESAKTUELL¹²⁰⁰

Products



ESCHMANNSTAHL



Greater Reliability and Higher Productivity in Plastics Processing

If optimal graining suitability as well as high production and process reliability are called for, this is when you want to use **ESAKTUELL 1200**. Due to the optimized properties of **ESAKTUELL 1200**, by applying this steel grade you get maximum security and increase the cost-effectiveness of your production.

- High degree of heat conductivity
- Low degree of segregation
- Wear resistance
- Optimal repair weldability
- Good polishability
- Cost-effective machinability

i ESAKTUELL¹²⁰⁰ –
reduced percentage of carbon =
better repair weldability

“ ESAKTUELL¹²⁰⁰ –
*excellent graining suitability
along the entire cross-section!* ”



Material

Facts & Figures

Reference analysis in %

Material	C	Mn	Cr	Ni	Mo	
ESAKTUELL ¹²⁰⁰	0.25	1.4	1.3	1.0	0.5	+ trace elements
1.2738 EST	0.4	1.5	2.0	1.0	0.25	

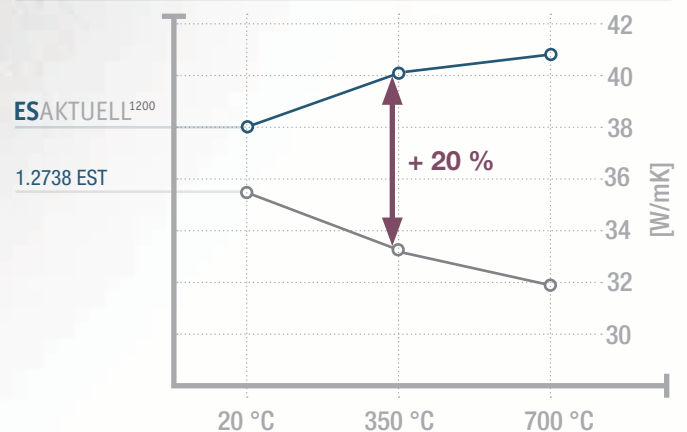
Depiction of Toughness



Heat Conductivity [W/mK]

Material	20 °C	350 °C	700 °C
ESAKTUELL ¹²⁰⁰	38.0	40.1	40.8
1.2738 EST	35.5	33.2	31.9

At 350 °C: 40.1 W/mK

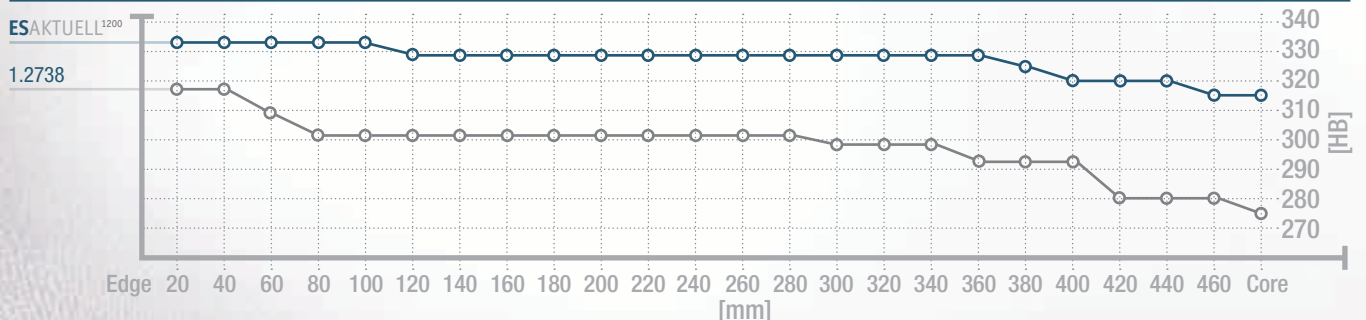


Heat Treatment Data

Process step	Temperature	Duration	Cooling
Stress relief heat treatment	max. 480 °C	min. 4 h	furnace

Full Quenching and Tempering

High degree of hardness all the way to the core



Versatile Options

Requirements for ever bigger parts in injection molding at ever shorter cycle times exacts highest demands on the tool steel used for molds. That is why EschmannStahl offers solutions tailored specifically to meet these enhanced requirements and accompanies the customers from tool design to production.

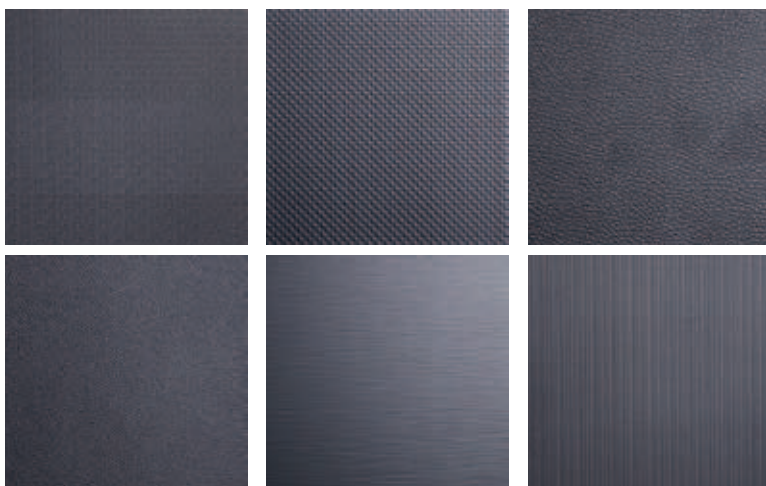
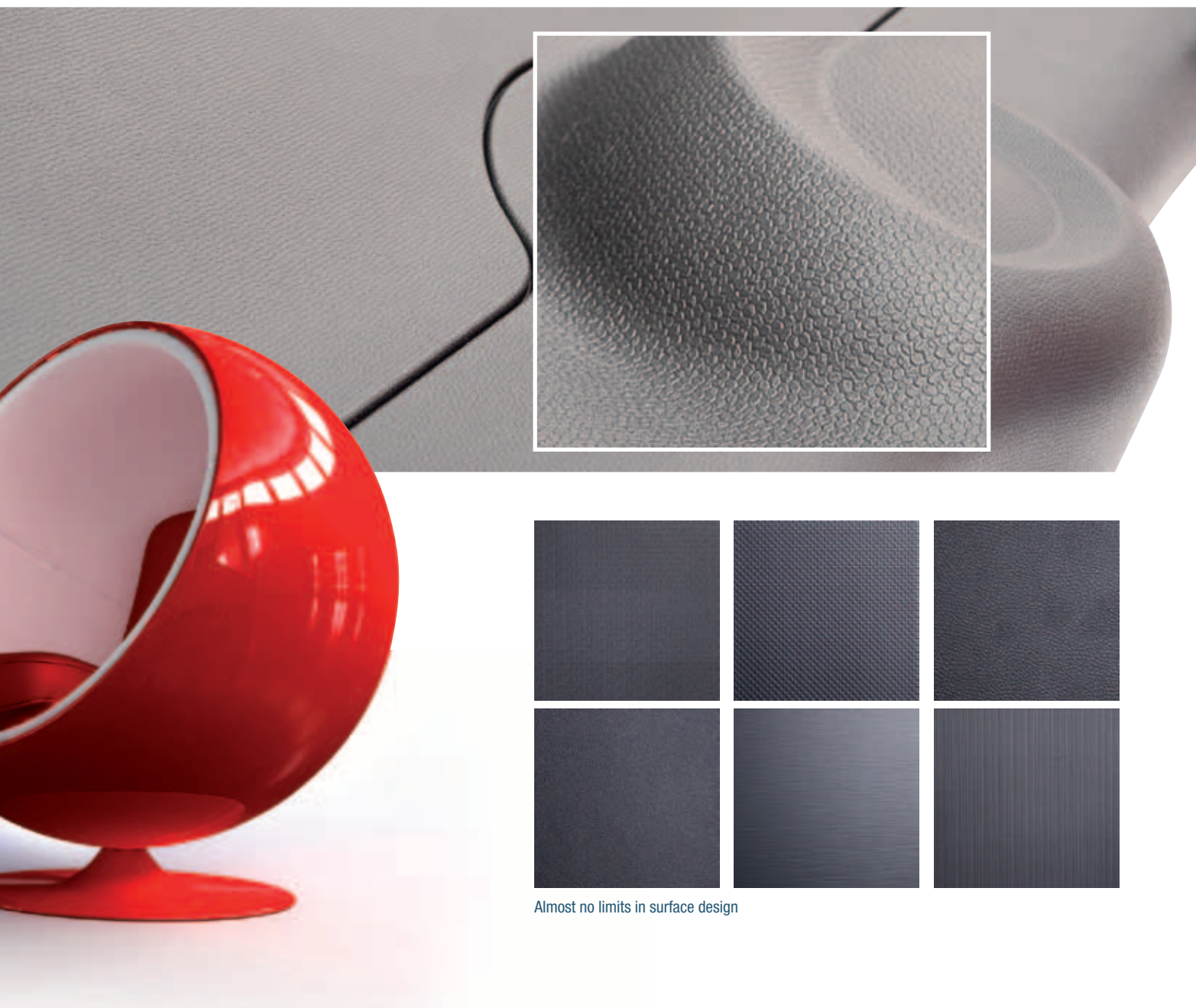
Based on a close cooperation with its subsidiary Eschmann Textures, this kind of operator-oriented advice enables us to tailor all quality-relevant processes, from steel selection to surface design, in line with your individual needs in an ideal way.

For mold users, the good wear resistance also contributes to cost-effectiveness, as it guarantees longer tool life and thus greater number of produced units. The perfect surface quality of tools made of **ESAKTUELL 1200** is the basis for plastic products of a continuously high quality.





Excellent graining suitability guarantees high-quality surfaces.



Almost no limits in surface design



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