

EschmannStahlGrade
ESAKTUELL¹²⁰⁰



Products

Facts & Figures

Material

| 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 | |

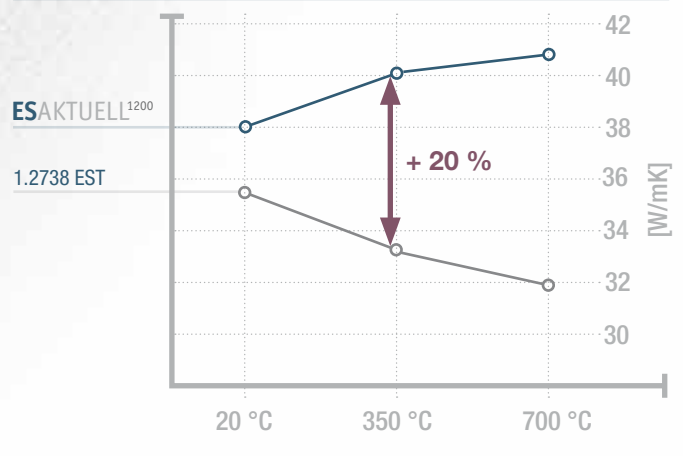
Depiction of Toughness



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

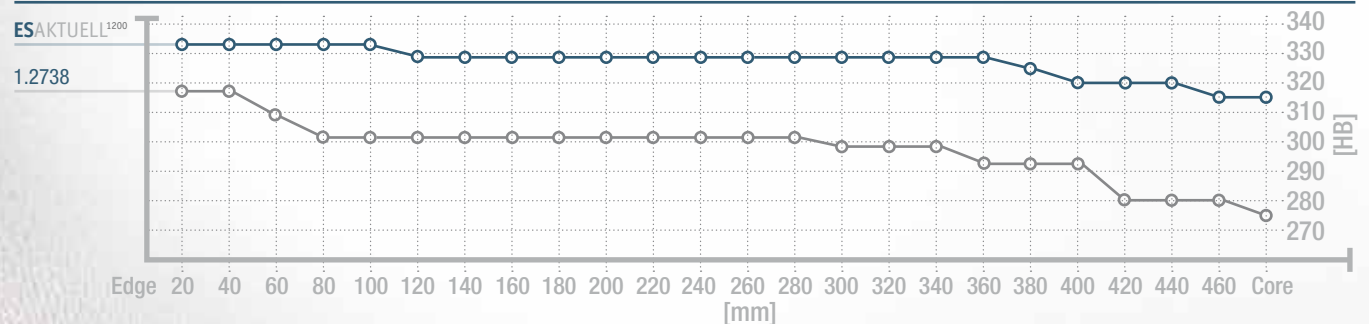


Heat Treatment Data

| 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





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! ”



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.

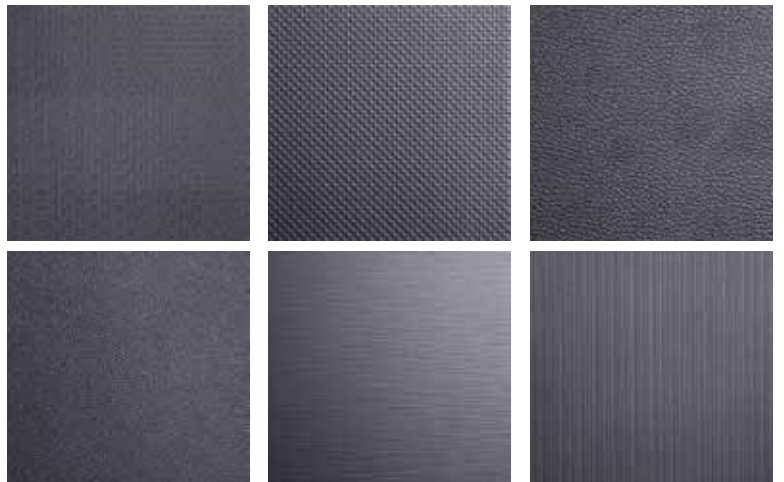
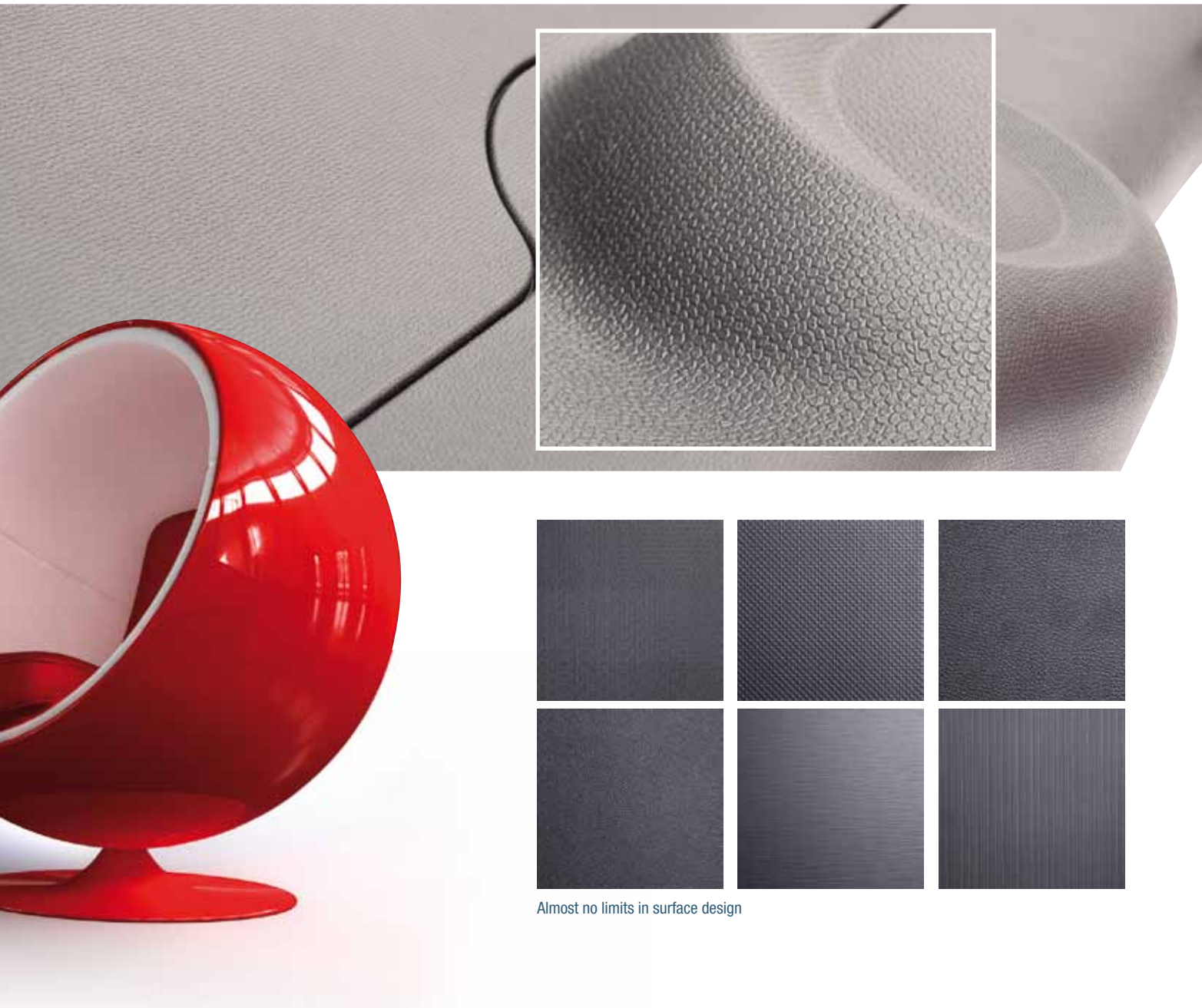
Based on a close cooperation with its subsidiary Eschmann Textures, this kind of operator-oriented advice enables us to tailor all quality-relevant processes, from steel selection to surface design, in line with your individual needs in an ideal way.

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



Intersteel (UK)

European Business Park
Taylors Lane
Oldbury
West Midlands
B69 2BN

Phone: +44 121 627 9279

Fax: +44 121 627 9270

E-mail: sales@intersteel.co.uk

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