

STEEL GRIPS

JOURNAL OF STEEL AND RELATED MATERIALS

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Crystal plasticity theory, niobium single crystals, bcc crystals, parameter identification, deformation behaviour

Products

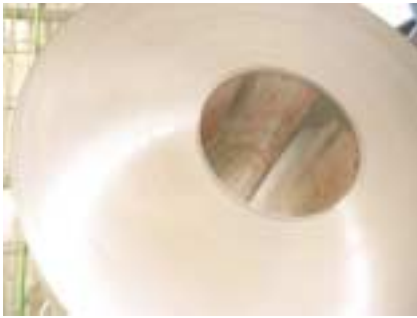


Asian countries are facing a rise in steel demand. Many new plants are currently under construction in this part of the world. State-of-the-art technology enables them to manufacture whatever product their customers desire. Especially the South-East Asian steel industry has set out for growth by focusing the product.



As a process can only run as quick as its slowest subprocess, the quality of a final product is only as good as that of its weakest pre-product. Recycling of co-/by-products can improve a process's sustainability.





Manifold features make coil coated steel a proper product for roofings, but how to select the system best suited for the resp. area and application? Carbide control by alloy designing and the respective governing of the production process is the key technology to attain tool steels with new properties. Mechanisms and relationships of how to adjust the required product properties are further supported by fundamental work. Above all, the required tools to handle and trim these sophisticated products are also available.



Finally, art reveals the felicitous combination of extreme properties in a material - an aesthetic approach to understand steel products!



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