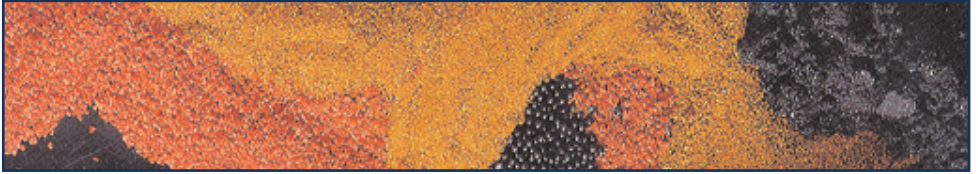


EPMA Awards 2008

for Excellence in Powder Metallurgy



STX2000 Alloy

At Sintex A/S a recent development project was aimed at producing a new sintered stainless steel alloy with more stable microstructure, higher corrosion resistance and reduced amount of alloying elements. Molybdenum content was reduced from 6.5% to 3.9%. However further optimisation was needed in the manufacturing processes to maintain a high level of corrosion resistance particularly in the compaction process and more importantly in the sintering process.



As a consequence a new sintering furnace with focus on atmosphere and temperature control was designed and developed. The results were outstanding: an accelerated salt spray test of the new alloy has shown significantly better corrosion resistance than the old STX1000.



Sintex a/s | Jyllandsvej 12-14 | Hobro | DK-9500
Denmark