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Trans. of [Ri]kagaku Kenkyujo Hokoku (Japan) 1957,
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DESCRIPTORS: *Spinel, *Ferrites, *Sodium compounds,
Oxides, *Crystal lattice defects, *Ferromagnetism,
Phase studies, Chemical equilibrium, Thermodynamics,
*Magnetic materials.

A solid solution where the lattice defect of γ -Fe₂O₃
is filled with Na⁺ is obtained by arranging NaOH so as
to act on γ -Fe₂O₃ at a high temperature. The limit
of such a solid solution is Na₂O-5Fe₂O₃. Furthermore,
the intensity of magnetism and the magnetic critical
points of γ -solid solutions were measured, and the
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III. Title: Research ...

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DESCRIPTORS: *Acetyl plastics, *Formaldehyde,
Solids, Production, Chemical precipitation

(Materials--Plastics, TT, v. 10, no. 7)

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- I. Title: Paraformaldehyde
- I. Takeishi, M.
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- III. Patent (Japan)
pub. 30-967
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DESCRIPTORS: Viscosity, *Elasticity, Reduction,
Ethylenes, Polymers, Molecular weight, Stresses,
Relaxation time, Crystals, Crystallization, Solid
state physics, Kinetic theory, *Molecules.

A process of reduction of crystallinity and draw-ratio
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simple model was proposed, but suitable data clearly
indicating the crystallinity and draw-ratio within a
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REC 69-15415-07A

H. Taketomi

Sci-Chen
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Trans. of Imono (Japan) 1961, v. 33, no. 4, p. 271-277

DESCRIPTORS: *Cast iron, *Titanium, Castings, Heat
treatment, Friction, Structures, Graphite, Eutectics

(Metallurgy, TT, v. 7, no. 11)

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NIH 8-5-61

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DESCRIPTORS: *Steel, *Corrosion inhibition, Sodium
compounds, *Phosphates, Ions, Metals, Calcium,
Zinc, Nickel

When sodium hexametaphosphate and bivalent metallic
ions in neutral solution were used against the corrosion
of steel, the minimum corrosion was obtained at the
ratio of sodium/hexametaphosphate 100 to calcium⁺⁺ 50,
zinc⁺⁺ 25 and nickel⁺⁺ 60. With 50 ppm, 200 ppm or
300 ppm sodium hexametaphosphate, the same ratios to
the metallic ions were maintained. The amount of cor-
rosive reagent was best at 75 to 100 ppm with surface
area 0.42 cm² coupon. The pH had to be 6 to 9 (neutral
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