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DESCRIPTORS: Mechanical properties, \*Castings,  
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6i-10149

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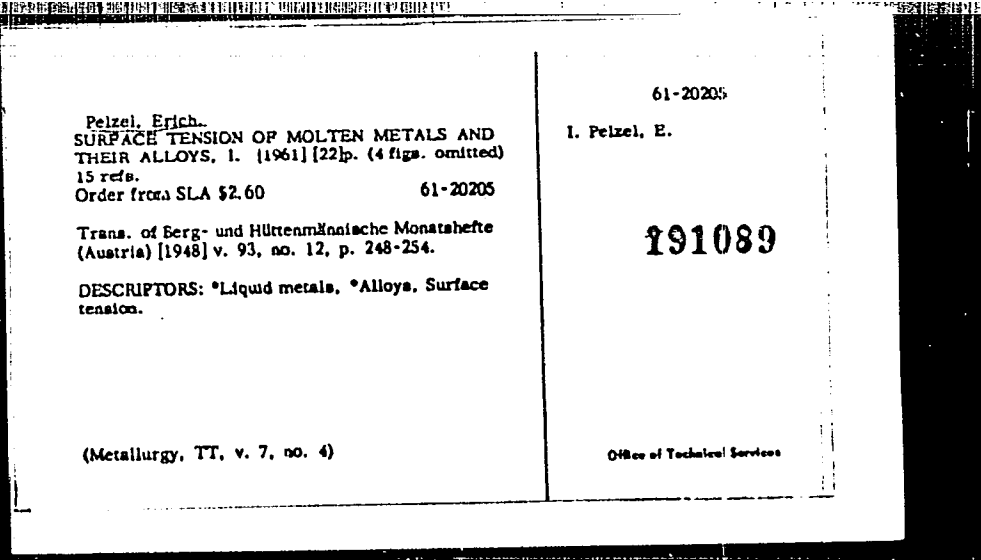
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The cold and warm age-hardening of solution-treated and water-quenched aluminum-zinc and aluminum-zinc-copper alloys follows a simple law, if the criterion used is the time required to attain maximum hardness. In the binary system, age-hardened alloys with up to 83 at.-% aluminum (67 wt.-%) are the most stable at room temperature. Copper-bearing alloys of this type extend to about 75 at.-% (56 wt.-%) zinc. Binary alloys attain their maximum hardness during room temperature hardening, whereas copper-bearing alloys must be tempered. From the temperature-dependence of the age-hardening times, values were (Metallurgy, TT, v. 5, no. 4) (over)

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DESCRIPTORS: \*Liquid metals. \*Alloys. Surface  
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DESCRIPTORS: \*Liquid metals, \*Alloys, Surface  
tension.

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