



2024-T4 Kaiser T-FORM® – An innovative aircraft sheet product

2024-T4 T-FORM



Kaiser Aluminum Can Help Reduce Manufacturing Costs Now

2024-T4 Kaiser T-FORM® sheet is designed to streamline today's manufacturing processes in aerospace fabrication – resulting in substantially lower costs and higher manufacturer profitability. It is ideal for the fabrication of simple to moderately complex parts, lending itself to bending, joggling, stretch forming, hydroforming and other sheet metal processes. Its formability is vastly improved relative to -T3 and -T4 tempers and is comparable to -W and -O tempers. T-FORM also provides mechanical properties equivalent to standard 2024-T4.

A Better Alternative for Many Applications

The unique properties of T-FORM make it an ideal choice for aerospace fabricated parts. It has been adopted by major aircraft manufacturers and subcontractors around the world. Consider T-FORM for any application now being produced by:

- *forming in -O temper, followed by heat treatment*
- *heat treatment, then forming in -W temper*
- *forming in -T4 temper, with difficulty*
- *forming in -T3 temper, with difficulty*

Big Cost Advantages for Manufacturers

Industrial acceptance of 2024-T4 Kaiser T-FORM sheet is largely due to its elimination of such troublesome operations as edge preparation, vapor degreasing/cleaning, solution heat treatment, freezer storage, handling and straightening – a benefit achieved through the conversion of -O, -W and -T temper forming. With T-FORM, the metal need only be machined and formed, without all the labor intensive intermediate

steps. Almost any component currently produced to the -T42 or -T62 condition is a candidate for Kaiser T-FORM.

The results? Faster, more cost-effective production, with reduced flow time and manufacturing costs. Take advantage of 30-50% lower costs and improve your margins today.

The T-FORM Way

By eliminating time-consuming production steps, T-FORM reduces your costs dramatically. Look at this typical manufacturing comparison:

The "Old Way"

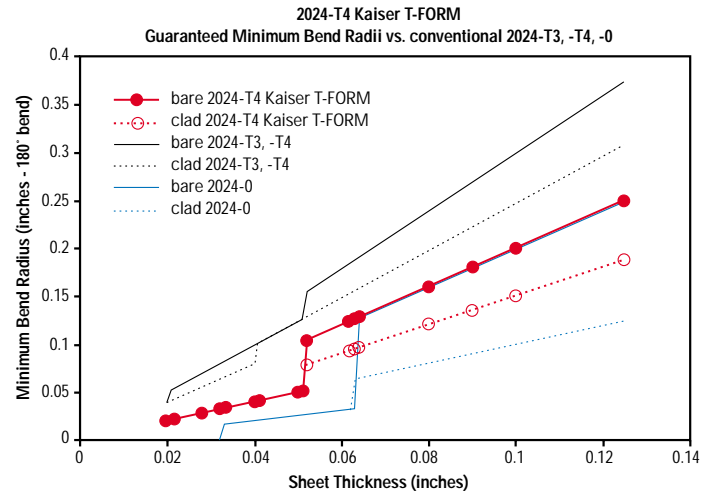
1. Machine
2. Form
3. Heat treat
4. Quench
5. Freeze
6. Straighten

The "T-FORM Way"

1. Machine
2. Form

Formability Comparisons

The minimum guaranteed bend performance of T-FORM is greatly improved over that of conventional -T3 or -T4 materials, and in fact most gauges approach -O temper formability.



Industry Accepted

Complies with the following recognized specifications:

- BARE - AMS 4297
- AMS QQ-A-250/4
- ALCLAD - AMS 4279
- AMS QQ-A-250/5

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The Bottom Line

Through a combination of chemical composition and process control, T-FORM provides an immediate cost advantage to manufacturers. With thousands of parts "in flight" today, T-FORM is proven and readily available. What are you waiting for?

Find out for yourself what kind of difference T-FORM can make in your operation. For more information, contact Kaiser Aluminum today, or call a recognized T-FORM distributor nearest you.

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