

COMMONWEALTH AIRCRAFT CORPORATION PTY. LTD.

MATERIAL SPECIFICATION

| ISS | DATE | WRITTEN | APPROVED | | TUBING: STEEL, CORROSION RESISTING (18-8) AIRCRAFT, HYDRAULIC SYSTEM, NON - WELDABLE | SPEC. No. |
|-----|---------|---------|----------|----------|---|-----------|
| | | | C.A.C. | R.A.A.F. | | |
| A | SEP '52 | RC | H.A. | ERD | | CA. 142C. |
| B | JUN '54 | BO | HEA | DLR | | |
| C | AUG '57 | AB | | | | |

This specification is satisfied by the U.S. Military and S.A.E. Aeronautical Specifications listed below:

| C.A.C. NO. | Condition | U.S. Military Specification | S.A.E. Aeronautical Specification. |
|------------|------------|------------------------------|------------------------------------|
| CA. 142-1 | Annealed | MIL-T-8504 (latest issue) | --- |
| CA. 142-2 | Cold Drawn | MIL-T-6845 (latest issue) | AMS. 5566 (latest issue) |

SIMILAR SPECIFICATIONS.

The following specifications (alloy type or schedule numbers) are listed for information only and shall not be construed as acceptable alternatives unless all the requirements of this specification are met and/or the numbers listed are shown on the relevant drawings.

SAE. 30304; AISI. 304;
AMS. 5565; ASTM. A269-55, T.P. 304;

Specification No.
CA 142C.

FOR INFORMATION ONLY

(Consult latest issue of applicable endorsed specification
for official purposes)

CHEMICAL COMPOSITION

| | | | |
|------------|-------|---------|------|
| Carbon | 0.08 | percent | max. |
| Manganese | 2.00 | " | " |
| Sulphur | 0.03 | " | " |
| Phosphorus | 0.03 | " | " |
| Silicon | 0.75 | " | " |
| Chromium | 18.00 | " | min. |
| Nickel | 8.00 | " | " |
| Molybdenum | 0.50 | " | max. |
| Copper | 0.50 | " | " |

MECHANICAL REQUIREMENTS

| C.A.C. Number | Nominal O.D. | Nominal Wall Thickness ins. | U.T.S. | | 0.2% Proof Stress | | Elongation percent min. | |
|------------------|-----------------|--------------------------------------|---------------------|---------------|----------------------|---------------|-------------------------------|-------|
| | | | psi. | tsi. | psi. | tsi. | Full Sect. | Strip |
| CA 142-1 | - | - | 75,000- 100,000 | 33.5 -40.2 | 30,000 min. | 13.4 min. | 40 | 35 |
| CA 142-2 | 0.188 | 0.016 & over | 95,000- 150,000 | 42.4 -58.0 | 60,000- 99,000 | 26.7 -40.2 | 25 | |
| | 0.250 & over | All thick nesses | 105,000 -140,000 | 46.9 -62.5 | 75,000- 110,000 | 33.5 -49.1 | 20 | |

NOTE: This material is not to be brazed,
welded or heat treated.
It is non-magnetic and can be flared.
A hydraulic test forms part of this
specification.
A flaring test forms part of this
specification.