



**Astrolite / Tricor Alloys
California Division**
201 Bernoulli Circle, Units B & C
Oxnard, CA 93030
Phone: 805-487-7131
Fax: 805-487-9694

**Tricor Metals
Ohio Division & Corp. H.Q.**
3225 W. Old Lincoln Way
Wooster, Ohio 44691
Phone: 330-264-3299
Fax: 330-264-1181

**Tricor Metals
Texas Division**
3517 North Loop 336 West
Conroe, Texas 77304
Phone: 936-273-2661
Fax: 936-273-2669

**Tricor Metals
Michigan Division**
44696 Helm St.
Plymouth, MI 48170
Phone: 734-454-3485
Fax: 734-454-7110

www.astrolite.com

www.tricormetals.com

Astrolite[®] Alloy H-X

Astrolite 5798

Product Description:

Astrolite[®] Alloy H-X (also known as Hastelloy[®] X, Inconel[®] HX, Nicrofer[®] 4722 Co, and Pyromet[®] 680) is a nickel-chromium-iron-molybdenum alloy that has a very good combination of oxidation resistance, fabricability and high-temperature strength.

Alloy H-X is widely used in gas turbine engines for transition ducts, combustor cans, spray bars and flame holders, afterburners, tailpipes and cabin heaters. Alloy H-X is also used in the chemical process industry for retorts, muffles, catalyst support grids, furnace baffles, tubing for pyrolysis operations and flash drier components. It is resistant to stress-corrosion cracking in petrochemical applications.

Astrolite[®] UltraGrade[™] surface finish on the spooled wire promotes smooth feeding through welding equipment which may result in reduced tip wear in contact tips.

Astrolite[®] UltraGrade[™] wire cleaning processes insure very clean wire surface for reliable welding performance.

Specifications:

AMS 5798, AWS A5.14 ERNiCrMo-2, UNS N06002, MSRR 9500/215, OMAT 3/165.

Nominal Composition & Mechanical properties:

Nickel	47 (Balance)
Chromium	20.5 - 23
Iron	17 - 20
Molybdenum	8 - 10
Cobalt	0.5 - 2.5
Manganese	1
Tungsten	0.2 - 1
Other interstitials	Not reported

Tensile (ksi)	110
Density (LBs/Cubic inch)	0.297



Available Product Forms and Sizes, Packaging & Identification:

Straight Lengths	Spooled
AMS-2813 – Standard packaging AMS-2814 – Premium packaging <i>available upon request</i> Vapor barrier packaging <i>available upon request</i> . <i>1 LB and 5 LB bags available.</i>	Precision layer wound, with controlled cast and helix AMS-2813 – standard packaging AMS-2814 – Premium, vapor barrier packaging <i>available upon request</i> .
36" (914 mm) – Standard length. Other lengths <i>available on request</i> . Flag tagged on one end per AMS-2816. <i>Tagging of both ends available upon request.</i> Color coding to AMS-2819 or customer-specific specification is <i>available upon request</i> .	12" – Standard spool diameter <i>Other spool diameters; 4" & 8" diameter spools available on request.</i>
Diameters: 0.020", 0.025", 0.030", 0.035", 0.040", 0.045", 0.062", 0.078", 0.093", 0.125"	<i>Upon request special diameters and shapes may be available.</i>

DFARS Compliant

**** The data and information contained in this pamphlet have been taken from open literature and is believed to be reliable. The information contained is intended to be used as a guide. Tricor Industrial Inc. does not make any warranty or assume any legal liability for its accuracy, completeness or usefulness. **** Nicrofer[®] is a registered trademarks of ThyssenKrupp VDM GmbH. Inconel[®] and Udimet[®] are registered trademarks of Special Metals Corporation. Pyromet[®] is a registered trademark of Carpenter Technology Corporation. Haynes[®] and Hastelloy[®] are registered trademarks of Haynes International Inc.

www.astrolite.com