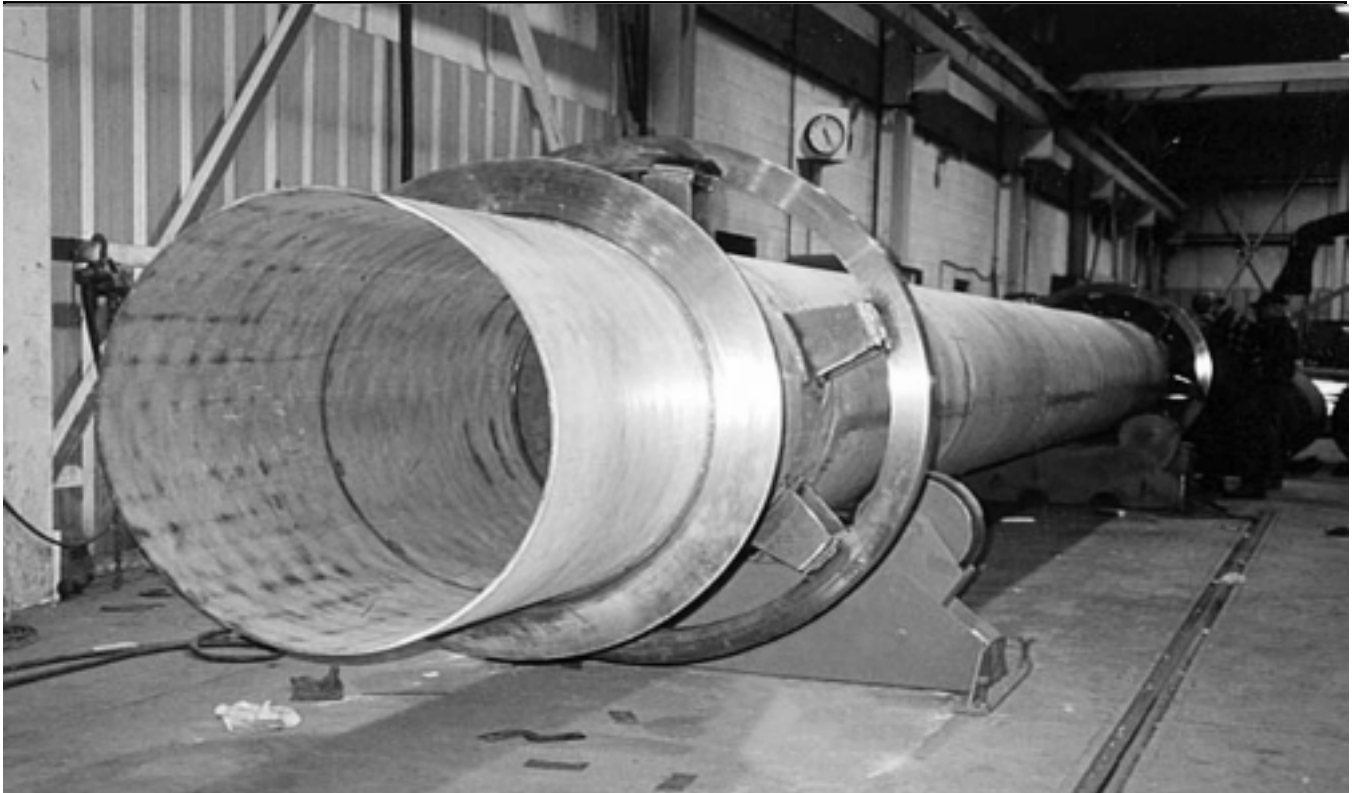


RACASE HISTORY RA 353 MA[®] Alloy

ASTM A 240, UNS S35315, EN 1.4854



TPS[™] **FABRICATES RA 353 MA[®] Alloy CALCINER**

A kiln shell of 3/4" (19mm) cast 35Ni 25Cr 15Co 5W began pitting in hours, after the first run Temperature 2192F (1200C), calcining metal oxides. After evaluating exposed coupons of RA 353 MA, 602CA, RA333[®] and the cast NiCrCoW alloy, RA 353 MA was chosen. Thermal Processing Solutions, Inc., Bartlett, Illinois designed and fabricated a new shell of 3/8" (9.5mm) RA 353 MA plate. This calciner shell went into trial service September 1998 and is currently in continuous production mode. The shell is 18" dia by 15' furnace length (457mm dia by 3560mm long). Outside of the furnace heated zone, the ends are fabricated of RA310. All welding was done using RA 353 MA GMAW wire. A second kiln is now being fabricated, 24" dia by 15' furnace length (610mm by 4570mm long), with ends fabricated of RA310.

Thermal Processing Solutions designs and builds rotary calciners, kilns, dryers and coolers, and offers pilot testing services to assist in product development. Rolled Alloys materials used by TPS[™] include RA 353 MA, RA 253 MA[®], RA85H[®], RA330[®] and RA310.

Disclaimer Clause: The data and information in this printed matter are believed to be reliable. However, this material is not intended as a substitute for competent professional engineering assistance, which is a requisite to any specific application. Rolled Alloys makes no warranty and assumes no legal liability for results to be obtained in any particular situation, and shall not be liable for any direct, indirect, special or consequential damage therefrom. This material is subject to revision without prior notice.



MIDWEST REGION:

125 W. Sterns Road • Temperance, Michigan 48182-9546 USA • 1-734-847-0561 • 1-800-521-0332 • FAX: 1-734-847-6917

CENTRAL REGION:

9944 Princeton-Glendale Road • Cincinnati, Ohio 45246 USA • 1-800-521-0332

EASTERN REGION:

30 Baker Hollow Road • Windsor, Connecticut 06095 USA • 1-800-521-0332

SOUTHERN REGION:

9818 E. Hardy Rd. • Houston, Texas 77093 USA • 1-800-728-1440 • 1-713-691-1040 • FAX: 1-713-691-0834

CANADA:

Rolled Alloys-Canada, Inc. • 151 Brunel Road, Unit 23 • Mississauga, Ontario, Canada L4Z 2H6 • 1-905-501-7552
1-800-521-0332 • FAX: 1-905-501-7553

ENGLAND:

Rolled Alloys, Ltd. • Grangefield Industrial Estate • Grangefield Road • Pudsey, Leeds (UK) LS28 6JT
TEL: +44-(0)113-236-2992 • FAX: +44-(0)113-236-2575

NETHERLANDS:

Rolled Alloys BV • Voorerf 16 • 4824 GN Breda, The Netherlands • TEL: +31-(0)76-548 44 44
FAX: + 31-(0)76-542 98 88

INTERNATIONAL:

Rolled Alloys International, Ltd. • 14, The Oaks, Clews Road • Redditch, Worcestershire (UK) B98 7ST
TEL: +44-(0)1527-401101 • FAX: + 44-(0)1527-401013

<http://www.rolledalloys.com> • E-mail: marketingservices@rolledalloys.com

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