

Special Interest Articles:

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"R", "C", & "B"
Designations

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Stainless prices gen-
erally down. Nickel
prices on the rise.

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TEMA DESIGNATION

This month I want to discuss the importance of TEMA (Tubular Exchanger Manufacturers Association) and the classes of mechanical standards they have in Shell and Tube heat exchanger design.

TEMA is a trade association of leading manufacturers of shell and tube heat exchangers, who have pioneered the research and development of heat exchangers for over sixty years. TEMA is recommended standards, based upon sound engineering principles, research and field experience in the manufacturing, design, installation and use of Tubular Exchangers.

There are three (3) classes of mechanical standards in TEMA: "R", "C", and "B" which suggest acceptable designs for various service applications.

TEMA Class "R" designation is for the generally severe requirements of petroleum and related processing applications.

TEMA Class "C" designation is for the generally moderate requirements of commercial and general process applications.

TEMA Class "B" designation is for chemical process service.

While all three classes share good engineering practices, TEMA "R" Class has some noticeable differences.

TEMA "R" requires a 1/8" corrosion allowance on carbon steel materials; It requires confined gaskets and may require a thicker minimum for the shell, tubesheets, baffles, flanges, and baffle rods. Pipe Tap Connections are a minimum of 6000 psi standard couplings and each nozzle, size 2" or larger, shall have a 3/4" IPS for a pressure gage. The minimum bolt size for a TEMA "R" is 3/4".

If you have any questions concerning TEMA designations, mechanical, or thermal designs, on any shell and tube heat exchangers, contact me at 270-331-0578 or Chris Clarkson at 901-948-7664 Ext. 123.

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IN PRODUCTION:



Stainless Steel Jacketed Vessel



Shell for a 2,550 1" OD tube heat exchanger.

NON FERROUS SURCHARGE CHART

Stainless is slightly down with the exception of 2205 and AL-6XN which ticked up. Nickel prices are on the rise and will continue to do so through Arpil deliveries. If you are considering any nickel based vessels, you might want to consider ordering them sooner, rather than later. Remember, this chart is for surcharge only, it does not include the base price for materials.

Alloy	Jan	Feb	March	April	May	June	July	Aug	Sept
2205	0.7185	0.7195	0	0	0	0	0	0	0
304 CLAD	0.3464	0.3398	0	0	0	0	0	0	0
304/304L	0.6285	0.5995	0	0	0	0	0	0	0
304H	0.6285	0.5955	0	0	0	0	0	0	0
304LN	0.6285	0.5955	0	0	0	0	0	0	0
304N	0.6285	0.5955	0	0	0	0	0	0	0
309/309S/309H	0.8358	0.7776	0	0	0	0	0	0	0
310/310S	1.124	1.0244	0	0	0	0	0	0	0
316/316L	0.757	0.7235	0	0	0	0	0	0	0
316LN	0.757	0.7235	0	0	0	0	0	0	0
316Ti	0.7828	0.7461	0	0	0	0	0	0	0
317/317L	0.8662	0.8317	0	0	0	0	0	0	0
AL-6XN Plus	1.132	1.1611	0	0	0	0	0	0	0
alloy 20	1.2687	1.3511	1.5248	1.6467	0	0	0	0	0
AL-200 TM	2.6748	2.7167	3.1892	3.1192	0	0	0	0	0
Al-400 TM	1.8828	1.913	2.3223	2.3123	0	0	0	0	0
Al-600 Tm	2.1406	2.206	2.5506	2.6038	0	0	0	0	0
Altemp 625	3.896	3.9472	4.219	4.344	0	0	0	0	0
Alloy 276	3.225	3.2347	3.4967	3.5832	0	0	0	0	0



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