



Innovative Technology for Steam Reforming Applications

WHAT IS OMEGA® TECHNOLOGY?

Our unique design of profiling the inside of the tubes, enhances the thermal performance of the tube using standard reforming catalyst. This application is retrofittable for all steam reformer designs and is reversible.

Combining OMEGA® technology with Paralloy Group Alloys, H39WMR, & H39WM+ range of microalloys, giving a synergistic offering, with much improved and

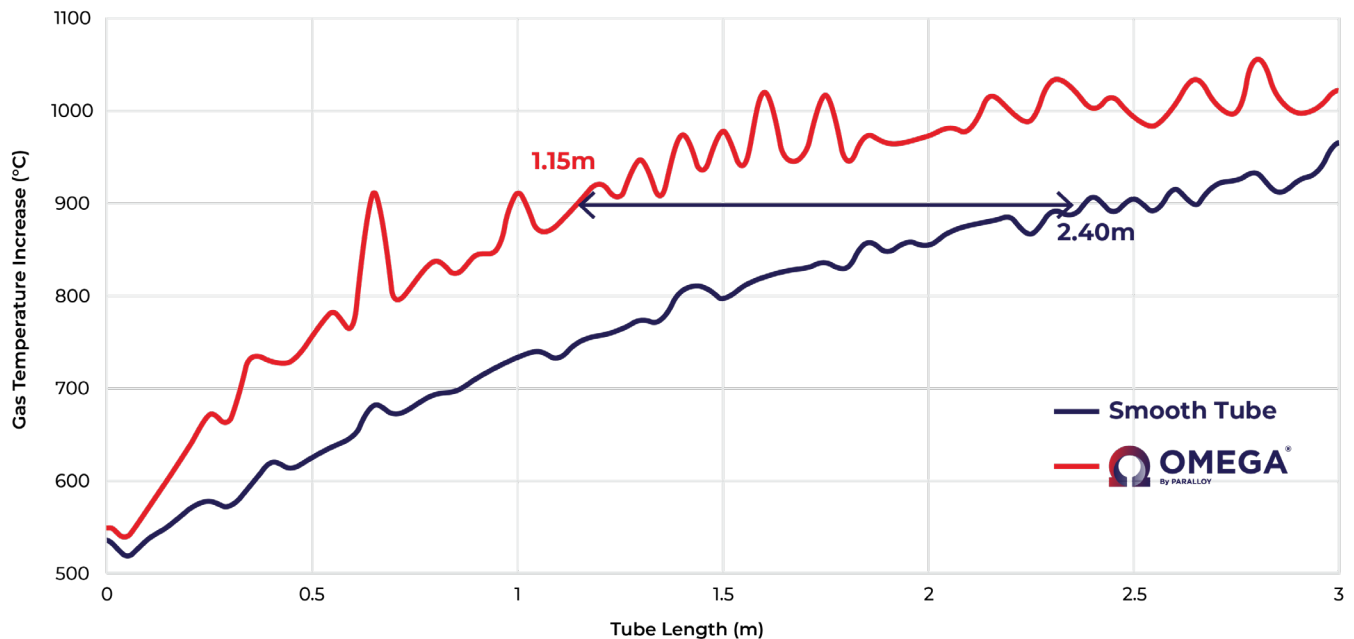
superior properties to add to the overall improved performance. OMEGA® Technology tubes now allows existing users to convert the reformer and operate in the “Blue Hydrogen” arena without significant cost.

Following extensive research and development, Paralloy Group can now offer the most modern tube technology for a variety of Steam Reforming Furnaces.

With improved material properties, operators can now see improved efficiency via reduced firing with the same conversion rates, improved reliability, and the ability to improve operating windows.

The enhanced properties of Paralloy H39WM+ enables customers to improve plant efficiency and gain financial benefits.



GAS TEMPERATURE INCREASE**HOW OMEGA[®] IMPROVES TUBE EFFICIENCY**

Using Omega technology delivers several operational advantages for reformer performance and plant efficiency. Lower tube metal temperatures help extend tube life while improving safety margins. Plants can also achieve about a 2% reduction in fuel consumption, lowering operating costs.

Increased gas flow capacity enables more than a 10% rise in product output. The design also allows the use of more reactive catalysts, improving product yield. In addition, the possibility of a new reformer tube design allows shorter tubes, simplifying configuration and supporting heat transfer.

