The escalating price of rare earth in fluid cracking catalyst sparked increased demand from refiners for equilibrium catalyst (Ecat) as a means to control expenses. During this same period, the available supply of high quality, low metals Ecat had decreased. In response to the shrinking supply of Ecat, Grace introduces TITAN™, a unique catalyst solution for removing contaminant metals from refining operations.

Unlike traditional equilibrium catalysts, TITAN™ is completely free of nickel, vanadium and additives. These contaminants can lead to elevated NOx, H2, dry gas or coke, making TITAN™ a preferred option to avoid additional operating constraints. As shown in Figure 1, TITAN™ yields 2.5# lower cat-to-oil when compared with a standard 75 MAT equilibrium catalyst, providing even more value.

As with all Grace products, TITAN™ can be offered in blends with any combination of fresh catalysts, equilibrium catalysts and additives. Although TITAN™ is manufactured as a fresh catalyst product, Grace’s continuous improvement initiatives along with investments in new processing equipment allows for TITAN™ to be offered without a rare-earth surcharge. TITAN™’s performance is backed by the support of our Grace world-class Technical Service team.

For additional information on TITAN™, please contact your Grace representative.

Figure 1: TITAN™ Delivers Lower Cat-to-Oil Ratio vs. a Standard Ecat.