

ULTIMET[®] alloy

Principal Features

STELLITE[®] alloy-like wear resistance and HASTELLOY[®] alloy-like corrosion resistance in a single, highly weldable material

ULTIMET[®] alloy (UNS R31233) provides a unique blend of properties. From a wear standpoint, it behaves like the STELLITE[®] alloys with lower carbon contents. From a corrosion standpoint, it possesses many of the attributes of the C-type and G-type HASTELLOY[®] materials, in particular outstanding resistance to chloride-induced pitting and crevice corrosion. Its mechanical and welding characteristics are much closer to those of the HASTELLOY[®] alloys than those of the STELLITE[®] alloys, whose low ductilities can be problematic.

While ULTIMET[®] alloy has been used successfully in the form of wrought products, its largest applications have involved weld overlays, made with solid wire consumables and arc-welding processes such as GMAW (MIG) and GTAW (TIG).