# *COROLOY® TS 625*

### *CLASSIFICATION:*

T Ni 6625
T Ni Cr Mo –3
2.4621

### *GENERAL CHARACTERISTICS:*

Suitable for joining and cladding stainless, heat resistant and cold tenacious steels as well as welding dissimilar materials for example low alloyed steels with Ni-base or Cu-base alloys
The austenitic deposit is insensitive to hot-cracking and free of embrittlement at high as well as at low temperatures, non-scaling up to 1100° C, and cold tough down to –196° C.
No diffusion of carbon into the weld metal at high temperatures.
Used for service-temperatures of more than 300° C in chemical industry, petrochemical industry, glassworks, civil engineering, repairing and maintenance workshops.

### *APPLICATION:*

| | | | | | |
|---|---|---|---|---|---|
| 1.4558 | 2.4631 | 2.4605 | 2.4618 | 2.4619 | 2.4630 |
| 2.4641 | 2.4660 | 2.495 | 2.4816 | 2.4817 | 2.4851 |
| 2.4856 | 2.4858 | 1.5662 | 1.5680 | 1.5681 | 1.6907 |
| 1.6967 | 1.4876 | 1.4959 | Alloy 800 | Alloy 800HT | |

### *TYPICAL ALL WELD METAL ANALYSIS ( % ):*

| C | Si | Mn | Cr | Mo | Nb | Ni |
|---|---|---|---|---|---|---|
| 0,02 | 0,3 | 0,4 | 21,0 | 9,0 | 3,4 | Bal. |

### *TYPICAL ALL WELD METAL MECHANICAL PROPERTIES:*

| Tensile strength $R_m$ N/mm² | Yield strength $R_{p0,2}$ N/mm² | Elongation $A_5$ % | Impact strength J |
|---|---|---|---|
| 780 | 500 | 40 | - 196 C°; 70 |

### *FORMS OF DELIVERY:*

| Diameter / mm | Sales units | Shielding gas |
|---|---|---|
| 1,2 | BS 300 | Argon + $Co_2$ |
| 1,6 | BS 300 | Argon + $Co_2$ |

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