

## Classifications

EN ISO 18276-A	EN ISO 18276-B	AWS A5.36	AWS A5.36M
T69 6 Mn2NiCrMo B M21 3 H5	T766T5-0M21A-N4C1M2-UH5	E110T5-M21A8-K4-H4	E760T5-M21A6-K4-H4

## Characteristics and typical fields of application

Seamless basic flux cored wire for welding of high strength Nickel-Chromium-Molybdenum alloyed steels with Ar-CO<sub>2</sub> shielding gas.

Features include: excellent weldability in flat and horizontal positions, smooth and bright bead, low spatter losses easy to remove slag, exceptional mechanical properties at low temperatures (-60°C) with low content of diffusible hydrogen (<3ml/100g).

## Base materials

S620Q, S620QL, S690Q, S690QL, S620QL1-S690QL1, alform plate 620 M, 700 M, aldur 620 Q, 620 QL, 620 QL1, aldur 700 Q, 700 QL, 700 QL1

ASTM A 514 Gr. F, H, Q ; A 709 Gr. 100 Type B, E, F, H, Q ; A 709 Gr. HPS 100W

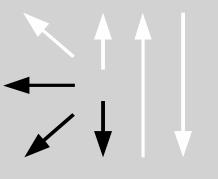
## Typical analysis of all-weld metal (wt.-%)

	Gas	C	Si	Mn	Ni	Cr	Mo
wt-%	M21	0.06	0.40	1.40	2.20	0.40	0.40

## Mechanical properties of all-weld metal

Condition	Yield strength R <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J
	MPa	MPa	%	-60°C
u	<b>740 (≥690)</b>	<b>800 (770–900)</b>	<b>20 (≥17)</b>	<b>80 (≥47)</b>
u	untreated, as welded – shielding gas M21			

## Operating data

	Polarity: DC (+)	Shielding gas: (EN ISO 14175) M21	ø (mm) 1.0 1.2 1.4 1.6
---	---------------------	--------------------------------------	------------------------------------

Welding with standard GMAW power source possible

## Approvals

TÜV, ABS, DNV-GL, LR, CE