UTP 613 Kb	Unalloyed and low alloyed steels
Classifications	basic-coated stick electrode
EN ISO 2560-A	AWS A5.1
F 42 5 B42 H5	~ F 7018-1 H4 R

#### Characteristics and field of use

UTP 613 Kb is a basic-coated stick electrode for construction-, boiler-, tube- and fine-grained steels as well as for steels with up to  $0.35\,\%$  C-content. It is especially recommended for the base materials as mentioned below.

UTP 613 Kb has a good weldability and a stable arc. The weld metal is resistant to ageing, crack-resistant and is little affected by steel impurities.

#### **Base materials**

Construction steels St 34 - St 60 Fine-grained-steels St E 255 - 355 Boiler steels H I - H II, 17 Mn 4

Tube steels St 35 - St 55, St 35.8, St 45.8

Cast steels GS 38 - GS 52

Typical analysis in%								
C	Si	Mn	Fe					
0.07	0.4	1.1	balance					

# Mechanical properties of the weld metalYield strength $R_{p0.2}$ Tensile strength $R_m$ Elongation AImpact strength $K_V$ MPaMPa%J> 420> 510> 25> 120

### **Welding instructions**

Keep a short arc during the welding process. Weld dry stick electrodes only. Re-drying:  $2-3\,h$  /  $250-300\,^\circ$ C. Preheat weldment if necessary

## **Welding positions**



## **Approvals**

TÜV (No. 00794), DB (No. 10.014.80), ABS, BV, DNV GL

Form of delivery and recommended welding parameters					
Electrodes Ø x L [mm]	2.5 x 350	3.2 x 350	4.0 x 350	5.0 x 450	
Amperage [A]	80 – 100	110 – 150	140 – 200	170 – 210	