

basic coated stick electrode, AC-weldable

Classifications	
EN ISO 2560-A	AWS A5.1
E 42 3 B32 H10	E 7018

### Characteristics and field of use

UTP 614 Kb is a double coated stick electrode with a universally suited application field. It is used in industry, trade, as well as in production and repair welds for diverse base materials. Due to a special coating formula UTP 614 Kb shows a smooth and finely rippled weld seam, a stable arc, easy slag removal, and a very slight increase of the weld, as well as a notch-free seam. The weld metal is little affected by steel impurities. Due to the double coating the stick electrode is excellently suited for root- and out-of-position welding. Recovery 120%, H2 content < 8 ml/100g.

### **Base materials**

Unalloyed construction steels

S235JRG2 - S355J2; E295, E335, St35, St 45, St 35.8, St45.8, St50-2

Boiler steels P235GH, P265GH, P295GH

Fine-grained steels up to S355N
Shipbuilding steels A – E, AH - EH
Cast steels C 35, GS-38, GS-45

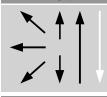
Typical analysis in %						
С	Si	Mn	Fe			
0.06	0.7	0.9	halance			

Mechanical properties of the weld metal						
Yield strength R <sub>P0,2</sub>	Tensile strength R <sub>m</sub>	Elongation A	Impact strength K <sub>V</sub> in J			
MPa	MPa	%	RT	-30°C		
> 420	> 510	> 22	> 100	> 47		

### **Welding instruction**

Ignite the electrode and stay at the ignition point until the electric arc is fully stabilised. Keep a short arc during the welding process. Hold stick electrode vertical to the weldment with slight weaving. Redrying: 2 - 3 h at 250 - 300°C. Only use dry stick electrodes.

# **Welding positions**



Current type DC (+) / AC

# **Approvals**

TÜV (No. 10571), DB (No. 10.138.03), BV, DNV, ABS, LR

Recommended welding parameters							
Electrodes Ø x L [mm]	2.5 x 350	3.2 x 350	3.2 x 450	4,0 x 450	5.0 x 450		
Amperage [A]	60 – 90	100 – 140	100 – 140	140 – 180	190 – 250		