

## Rutile type C-Mn steels

## STARBLAZE 6013 AUTO

**Classification**      **AWS A 5.1: E 6013**                      **DIN EN ISO 2560-A : E 38 0 RC 11**                      **IS 814: ER 4211X**

**Description and applications**      Rutile type medium coated mild steel universal electrode with versatile applications in steel construction, ship building, boiler, tank fabrication and pipeline construction. Superior weldability, very low spatter, smooth arc, fine rippled weld bead, self lifting slag, good strike and re strike. Welds are of radiographic quality.

**Base materials**      S(P) 235 to S(P) 355; GP 240; GP 280

**Typical weld metal Chemical Composition (%)**

C	Mn	Si	S	P
0.08	0.40	0.30	0.030	0.030

**All weld metal mechanical properties (typical)**

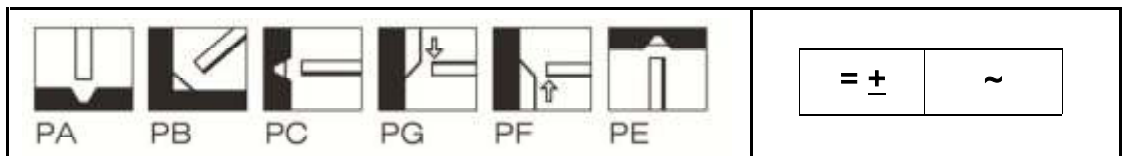
Yield strength $R_p$ (N/mm <sup>2</sup> )	Tensile strength $R_m$ (N/mm <sup>2</sup> )	Elongation $A_5$ (%)	Charpy Impact value (I S O-V J 0°C)
≥ 380	470-540	≥ 24	≥ 60

**Amperes (A)**

2.50 mm	3.15 mm	3.20 mm	4.00 mm	5.00 mm
60-90	90-130	90-130	140-180	180-230

**Welding Instruction**      Re-drying generally not required. If necessary :  
100-110°C for 1 hour.

**Welding Positions**



### Stellaris Specialities India Ltd.

(Division: StarBlaze India)

GST No.: 06AAICS2482B1ZK / Legal Metrology No.: GOI/DL/2022/4850

Plant 1: A-125, Okhla Industrial Area, Phase 2, New Delhi - 110020

Corporate Office & Plant 2: 552, Pace City II, Sector 37, Gurugram, Haryana - 122001

Plant 3: B-100, Mayapuri Industrial Area, Phase-1, Near Police Station, New Delhi-110064

Plant 4: A-334, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan - 301707

Tel: +91 124 4499523 | Email: sales@starblazeindia.com | Website: www.starblazeindia.com