

Key Facts

- Black annealed wire
- Low carbon wire designed for oxy welding
- Highly ductile welds

Description

This is a general purpose, annealed rod used for welding mild steels. It is characterised by excellent free running properties & high ductility.

R45 is a copper coated gas welding rod that is used for welding ordinary low carbon steel up to 1/4” thick. It is recommended where ductility and machinability are most important. R45 produces high quality welds which are ductile and free of porosity.

Welding Positions

All positions

Classification, Approvals & Conformances

AWS A5.2 R45  
ASME SFA-5.2: R45

Applications

Applications include gas welding of sheet metal, car bodies, plates, pipes, castings, structural shapes and general steel repairs.

- Exhaust systems
- Panel steel
- Fusion welding of mild steel

Typical Analysis/Composition

C - Carbon	Mn - Manganese	Si - Silicon	P - Phosphorus
< 0.18	< 0.50	< 0.10	< 0.035
S - Sulphur	Al - Aluminum	Cu - Copper	
< 0.040	< 0.02	< 0.30	

Typical Weld Mechanical Properties

Tensile Strength:	45,000 psi
Elongation (5xD):	25%

Packaging & Ordering Information

Size	Weight	Part Number
1.6mm	1kg	300044H
1.6mm	5kg	300044
2.4mm	1kg	300045H
2.4mm	5kg	300045
3.2mm	1kg	300046H
3.2mm	5kg	300046