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	**Ai - 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

Disclaimer: The above information is provided as a guide; actual welding current and voltage will depend on the welding machine characteristics, which will vary from model to model. Other variables include run length and size, plate thickness, operator technique and gas type (if used). The user must evaluate the process, application and recommended professional advice. Under no circumstance will Dynaweld or its affiliates be liable for misuse or application of products this is entirely up to the user's ability.