

THERMET 22H



Thermet 22H is designed to match similar high carbon cast alloys originating from Blaw-Knox (Now Duraloy) alloy 22H. The high carbon 28%Cr-50%Ni-5%W matrix provides excellent hot strength and oxidation resistance at typical service temperatures of 950-1250°C. High nickel gives the alloy good resistance to carburisation and under oxidising conditions high chromium provides useful resistance to sulphidation. Applications include highly stressed furnace parts, sintering and calcining muffles, cement kiln components resistant to hot abrasion, radiant tubes and pyrolysis coils.

CLASSIFICATIONS

There are no national specification for this electrode.

CHEMICAL ANALYSIS

% Carbon	0.50	% Chromium	28.00
% Manganese	1.000	% Nickel	51.00
% Silicon	0.700	% Tungsten	5.000
% Sulphur	0.006	% Iron	14.00
% Phosphorus	0.010		

TYPICAL MECHANICAL PROPERTIES
ALL WELD METAL

Tensile Strength	780 MPa
0.2% Proof Stress	590 MPa
Elongation on 4d	7%

Microstructure

The as-welded microstructure consists of high alloy austenite with primary eutectic and secondary carbides.

PACKING DATA

(DC+)

Diameter (mm)	Current (A)	Item Number	Canned Pack Mass (Kg)
3.20	85 - 120	078-360	4
4.00	110 - 160	078-361	4.1
5.00	140 - 200	078-362	4

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