


TECHNICAL GUIDE

212A42/EN8DM

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN8DM	212A42		Bright drawn semi freecutting carbon steel

CHEMICAL ANALYSIS	
Car	0.40 / 0.45
Sil	0.25 max
Mang	1.00 / 1.30
Phos	0.06 max
Sul	0.12 / 0.20

INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH BS 970:1991	212A42
BRITISH BS 970:1955	EN8DM
GERMAN DIN	45S20
FRENCH AFNOR	35MF6
SWEDISH SS	1957
AMERICAN SAE	1141
EUROPEAN STEEL NO.	1.0764
EUROPEAN STEEL NAME	36SMn14
EUROPEAN STANDARD	EN10277-3

QUICK VIEW SYSTEM	
MACHINEABILITY	100
WELDABILITY	Not recommended
HARDENABILITY	Small sizes suitable for induction hardening
SELECTION GUIDE AND USAGE EXAMPLES	As EN8D, but more suitable for repetition machining

SIZES														
Size (ins. dia)	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1.1/8	1.1/4	1.3/8	1.1/2
	1.5/8	1.3/4	2	2.1/8	2.1/4	2.3/8	2.1/2	2.5/8	2.3/4	3	3.1/4			

Size (mm. dia)	10.00	12.00	15.00	16.00	19.00	20.00	25.00	28.00	30.00	35.00	40.00	42.00	45.00	50.00
	54.00	55.00	60.00	65.00	70.00	75.00	80.00							

Size (ins. A/F)	0.750	0.875	1.125	1.500										
-----------------	-------	-------	-------	-------	--	--	--	--	--	--	--	--	--	--

Size (mm A/F)	10	17	19											
---------------	----	----	----	--	--	--	--	--	--	--	--	--	--	--