STANDARD ENGINEERING INSTRUCTION

DSM 1.9.2

D100 – Dymet

1. Definition:

The Dymet Alloys have created a Tungsten Carbide. Tungsten carbide is used to make durable wear components. Its high hardness, together with its resistance to extreme temperatures, corrosion and abrasion makes it invaluable in many industrial and engineering applications where it is used to increase component wear life.

2. Typical Applications:

Post Bushes & Liners, Wear Sleeves, Nozzles

3. Product Characteristics:

Composition Properties:

Characteristic	Value
Tungsten Carbide	1.0 µ
Trace Elements	<1%
Binder	5% Co ± 0.5%
Other	TaC / TiC additions

Composition % by Weight					
WC	TiC	TaC	Cr3C2	Co	Ni
85.3	4.0	5.0	0.7	5.0	

Mechanical Properties – Excellent High Wear

Characteristic	Unit	Value		
Average Grain Size		1.0		
ISO Code		K01 / K05		
Vickers Hardness	Hv30	1950 ± 50		
Density	g/cm³	13.5 ± 0.2		
Trans Rupture (Min)	N/mm²	1600		
Porosity (Max)		A 02	B 02	C 00