

# CEWELD Powder PTA DUR 6

TYPE	Gas atomized spherical Cobalt-Chromium-Tungsten alloy.										
APPLICATIONS	Outstanding alloy against abrasion, thermo-shock and corrosion combined with high temperatures. Dur 6 PTA Powder is the most widely used of the wear resistant cobalt based alloys and exhibits good all-round performance. It is regarded as the industry standard for general-purpose wear resistance applications.										
PROPERTIES	The alloy deposit can be machined with tungsten tool tips and by grinding. The hardness of the deposit will decrease 16% at 300°C and about 30% at 600°C. Excellent alloy against thermal shock, abrasion, erosion, corrosion and cavitation at high temperature and excellent resistance to many forms of mechanical and chemical degradation over a wide temperature range, and retains a reasonable level of hardness up to 500°C (930°F).										
CLASSIFICATION	EN ISO 14232-1 Co-Cr-W 68/28/4										
SUITABLE FOR	Examples include valve seats and gates; pump shafts and bearings, erosion shields and rolling couples. It is often used self-mated.										
APPROVALS											
WELDING POSITIONS											
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	<table><thead><tr><th>Co</th><th>C</th><th>Si</th><th>Cr</th><th>W</th></tr></thead><tbody><tr><td>Rem.</td><td>1</td><td>1</td><td>28</td><td>4</td></tr></tbody></table>	Co	C	Si	Cr	W	Rem.	1	1	28	4
Co	C	Si	Cr	W							
Rem.	1	1	28	4							
MECHANICAL PROPERTIES											
REDRYING	Not required										
GAS ACC. EN ISO 14175											