'Valency' manufactures all types of AWS coded austenitic & Ferritic range of Stainless Steel Electrodes which are widely recognized for superb welding characteristics viz. very low spatter , smooth arcing and excellent slag detachability in addition to superior corrosion resistance.'

ISO 9001-2008

PRODUCT CATALOGUE

FOR

JOINING AND FABRICATION OF STAINLESS STEELS

C. FLUX CORED WIRES

Product	Description	Classification	Applications	Typical Properties	Size and Current						
VALCOR - 200 ST	AUSTENITE STAINLESS STEEL WITH WORK HARDENING AND HIGH PLASTICITY, CORROSION AND HIGH TEMPERATURE RESISTANCE.	Alloys Basis : Cr - Ni - Mn	For joining and buffer layer on Steel, Stainless Steel, Manganese Steel, Earthmoving Machinery, Railway frogs and crossing, Steel mill rolls	Hardness 180 - 200 BHN 350 - 400 BHN [Work Hardened]	**Size (mm)** **Amps**	OA 1.6 - 3.2		MAG 1.6 - 2.4		SA 2.4 - 4.0	
VALCOR – 250	FULLY AUSTENITE AND EXCELLENT WORK HARDENING. CONTAINS HIGH CHROMIUM AND MANGANESE. THE DEPOSIT IS NONMAGNETIC, TOUGH AND CRACK FREE.	Alloys Basis : Mn - Ni -Cr - Mo - V	Applications: Suitable for manganese steel old part hardfacing to combat repetitive impacts. Recommended for crusher, earth moving machinery, railway frogs & crossing.	Hardness :200 - 220 BHN 400 - 550 BHN [Work Hardened]	**Size (mm)** **Amps**	OA 1.6 - 3.2		MAG 1.6 - 2.4		SA 2.4 - 4.0	
VALCOR - 440	A LOW ALLOY WITH MULTILAYER DEPOSIT CAPABILITY. DEPOSIT IS MACHINABLE PREHEAT RECOMMENDED ON HIGH CARBON AND THICK BASE METAL.	Alloys Basis : Cr - Mn - V	Suitable for build up on mine car wheels, idlers, steel mill rolls, coupling.	Hardness 420 - 440 BHN	**Size (mm)** **Amps**	OA 1.6 - 3.2		MAG 1.6 - 2.4		SA 2.4 - 4.0	
VALCOR - 606	CRACK FREE DEPOSIT IN THE INTERMEDIATE RANGE. CAN COMBAT HIGH ABRASION WITH MODERATE IMPACT.	Alloys Basis : C - Cr - Mo - Va	Crushers, buckets lips and teeth.	Hardness : 540 - 580 BHN	**Size (mm)** **Amps**	OA 1.6 - 3.2		MAG 1.6 - 2.4		SA 2.4 - 4.0	

Product	Description	Classification	Applications	Typical Properties	Size and Current						
VALCOR 240	HIGH IMPACT RESISTANCE WORK HARDENING DEPOSIT	Alloys Basis : Mn - Ni - Cr	Manganese steel jaw crushers, hammers, mantels, buckets.	Hardness : 180 - 200 BHN 350 - 420 BHN [Work Hardened]	**Size (mm)**	OA		MAG		SA	
					Amps	1.6 - 3.2		1.6 - 2.4		2.4 - 4.0	
VALCOR – 300	A LOW ALLOYED DEPOSIT WHICH IS CRACK FREE, DUCTILE TOUGH AND MACHINABLE MULTILAYER BUILD UP POSSIBLE.	Alloys Basis : Cr -Mn - Mo	Crane Wheel , trunnions, gears, and shaft.	Hardness: 300 - 350 BHN	**Size (mm)**	OA		MAG		SA	
					Amps	1.6 - 3.2		1.6 - 2.4		2.4 - 4.0	

Product	Description	Classification	Applications	Typical Properties	Size and Current			
VALCOR CRC - 60	HIGH CHROMIUM CARBIDE DEPOSIT FOR EXTREME GOUGING ABRASION WITH MODERATE IMPACT	Alloys Basis : C - Cr- Mo - Va	Crusher rolls, table liner, coal & cement crushers and hammers. Slurry pipes and bends gyratory crusher cones and mantels extruder screws and beaters	Hardness 540 - 580 BHN	**Size (mm)** **Amps**	OA 1.6 - 3.2	MAG 1.6 - 2.4	SA 2.4 - 4.0
VALCOR - 606 Tic	A SPECIAL ALLOY WITH TITANIUM CARBIDE DISPERSED IN HARD ABRASION RESISTANT MATRIX. CAN COMBAT SLIDING ABRASION WITH IMPACT & PRESSURE.	Alloys Basis : C - Cr - Mo - Va - Tic	Cement crusher rolls, pulveriser rolls, hammers, crane cutting, knives, tamping tools.	Hardness: 540 - 600 BHN	**Size (mm)** **Amps**	OA 1.6 - 3.2	MAG 1.6 - 2.4	SA 2.4 - 4.0
VALCOR - 6265	HIGH ALLOY DEPOSIT WITH COMPLEX CARBIDES TO GIVE RESISTANCE TO SEVERE ABRASION AT HIGH. TEMPERATURE AT 6500 C AND ABOVE. TWO LAYERS ARE ADEQUATE	Alloys Basis : C - Cr - Nb - Mo - Va - W	Sinter breakers and sieves in steel plant. Cement kilns, chute liners.	*Hardness:* *630 - 650 BHN*	**Size (mm)** **Amps**	OA 1.6 - 3.2	MAG 1.6 - 2.4	SA 2.4 - 4.0
VALCOR - 101	A SPECIAL ALLOY HAVING FRICTIONAL AND IMPACT RESISTANCE AT HIGH TEMPERATURE. MULTILAYER BUILDS UP POSSIBLE.	Alloys Basis : LOW ALLOY	Impressions build up on forging die. Flood welding also possible. Can be used as buffer layer for high hardness build up.	Hardness: 380 - 420 BHN	**Size (mm)** **Amps**	OA 1.6 - 3.2	MAG 1.6 - 2.4	SA 2.4 - 4.0