

## ABRALOY 3720

ABRALOY 3720 is specially formulated, highly alloyed heavy coated electrode with high weld metal efficiency. Special alloy addition gives the weld deposit which is extremely rich in different types of carbides, exhibits excellent performance in high temperature applications. ABRALOY 3720 is used for hardfacing the components which are subjected to high abrasive wear, erosion and friction. The weld metal deposits have high density of carbides, which are resistant to abrasion at elevated temperature. Excellent to resist high temperature abrasion and severe erosion when deposited on carbon steels and austenitic manganese steels. Alloy has rapid deposition and high recovery rate with very little slag.

### Applications:

Coal burner pipes, Fibrizer/Mincer hammers, Exhaust fans, Ash plough, Sinter breaker arms, Hot Slag Conveyors, Clinker Conveyor chains, Augers, Slurry pumps, Billet Conveyor Guides, Coke pusher shoes, vertical Coal mill rollers, grates in mineral dressing equipment where live coal and slag is treated etc.

### Procedure:

Remove damaged, oxidized and fatigued metal. Maintain short to medium arc, deposit stringer weave beads. Backfill crater. High carbon steel base metal to be preheated to 250<sup>0</sup>C. For higher build up on carbon or high alloy steels use Uniloy 624 as a cushioning layer. For manganese steels, restrict heat build up to 150<sup>0</sup>C and use Hadmoley 140 or Xaloy 52 if necessary as a cushion layer. Slow cool after welding.

<b><u>Technical Data</u></b>	<b>: ABRALOY 3720</b>
Size (mm), Ø	: 3.15            4.00            5.00
Recommended Welding Current (Amps)	: 100 - 140      140 – 175      160 –200
Hardness	: 61 – 65 HRC (On third layer)
Tip Colour	: Golden Brown

### DIFFUSION ENGINEERS LIMITED

Regd. Office & Works I : T-5/6, M.I.D.C, Hingna Industrial Area, Nagpur-440 016, (T) 091-7104-232084, 234727 (F) 232085

Works II : N-78/79, MIDC, Hingna Industrial Area, Nagpur – 440 016. (T) 091-7104-236036

Works III : T-12, MIDC, Hingna Industrial Area, Nagpur – 440 016.(T) 091-7104-232984

Email : info@diffusionengineers.com Website : www.diffusionengineers.com

Branch Offices : Chennai, Faridabad, Jamshedpur, Pune, Raipur, Secunderabad, Vadodara.